



UPS5000 and SmartLi

Alarm Reference

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Contents

1 UPS5000 and SmartLi Alarm Reference	1
1.1 0001-1 Mains voltage abnormal Alarm	1
1.2 0001-2 Mains voltage abnormal Alarm	2
1.3 0001-3 Mains voltage abnormal Alarm	2
1.4 0004-1 Mains ph. Reversed Alarm	3
1.5 0005-1 Mains neutral absent Alarm	3
1.6 0006-1 Mains undervoltage Alarm	4
1.7 0010-1 Abnormal bypass voltage Alarm	4
1.8 0010-2 Abnormal bypass voltage Alarm	5
1.9 0011-1 Bypass phase reversed Alarm	6
1.10 0012-1 Bypass neutral absent Alarm	6
1.11 0020-1 Battery connected reversely Alarm	7
1.12 0021-1 Battery EOD Alarm	7
1.13 0021-2 Battery EOD Alarm	8
1.14 0021-4 Battery EOD Alarm	8
1.15 0022-1 No battery Alarm	9
1.16 0023-1 Battery overtemperature Alarm	9
1.17 0024-1 Battery undertemperature Alarm	10
1.18 0025-1 Battery overvoltage Alarm	10
1.19 0026-1 Low battery voltage Alarm	11
1.20 0527-1 Battery charging overcurrent Alarm	12
1.21 0530-1 Battery ground fault Alarm	12
1.22 0531-1 Battery Overtemp. Protection Alarm	13
1.23 0032-1 Battery overvoltage protection Alarm	13
1.24 0033-1 Backup time warning Alarm	14
1.25 0034-1 Remaining capacity warning Alarm	15
1.26 0036-2 Battery maintenance reminder Alarm	15
1.27 0037-1 Battery undervoltage Alarm	16
1.28 0039-1 Batt. temp. sensor comm. Failure Alarm	16
1.29 0039-2 Batt. temp. sensor comm. Failure Alarm	17
1.30 0039-3 Batt. temp. sensor comm. Failure Alarm	17
1.31 0039-4 Batt. temp. sensor comm. Failure Alarm	18
1.32 0153-1 Batt. temp. sensor quantity mismatch Alarm	18

1.33 0154-1 NTC failure Alarm.....	19
1.34 0040-1 Rectifier abnormal Alarm	19
1.35 0040-2 Rectifier abnormal Alarm	20
1.36 0040-3 Rectifier abnormal Alarm	20
1.37 0040-4 Rectifier abnormal Alarm	21
1.38 0040-5 Rectifier abnormal Alarm	22
1.39 0040-6 Rectifier abnormal Alarm	22
1.40 0040-7 Rectifier abnormal Alarm	23
1.41 0040-8 Rectifier abnormal Alarm	23
1.42 0040-9 Rectifier abnormal Alarm	24
1.43 0040-10 Rectifier abnormal Alarm	24
1.44 0041-1 Rectifier Alarm	25
1.45 0041-2 Rectifier Alarm	25
1.46 0042-1 Internal fault Alarm	26
1.47 0042-14 Internal fault Alarm	26
1.48 0043-1 Fan abnormal Alarm.....	27
1.49 0044-1 Version incompatible Alarm	27
1.50 0044-3 Version incompatible Alarm	28
1.51 0044-21 Version incompatible Alarm	28
1.52 0045-1 Charger Alarm	29
1.53 0045-2 Charger Alarm	29
1.54 0045-3 Charger Alarm	30
1.55 0045-4 Charger Alarm	30
1.56 0045-5 Charger Alarm	31
1.57 0045-6 Charger Alarm	31
1.58 0045-7 Charger Alarm	32
1.59 0045-8 Charger Alarm	32
1.60 0046-1 Discharger abnormal Alarm.....	33
1.61 0046-2 Discharger abnormal Alarm.....	33
1.62 0046-3 Discharger abnormal Alarm.....	34
1.63 0047-1 Not ready Alarm	34
1.64 0060-1 Inverter abnormal Alarm	35
1.65 0060-2 Inverter abnormal Alarm	35
1.66 0060-3 Inverter abnormal Alarm	36
1.67 0060-4 Inverter abnormal Alarm	37
1.68 0060-5 Inverter abnormal Alarm	37
1.69 0060-6 Inverter abnormal Alarm	38
1.70 0060-7 Inverter abnormal Alarm	38
1.71 0060-8 Inverter abnormal Alarm	39
1.72 0060-10 Inverter abnormal Alarm	39
1.73 0060-11 Inverter abnormal Alarm.....	40
1.74 0061-1 Inverter Alarm	40

1.75 0061-2 Inverter Alarm	41
1.76 0061-3 Inverter Alarm	42
1.77 0061-7 Inverter Alarm	42
1.78 0061-8 Inverter Alarm	43
1.79 0062-1 Intra-rack par. cable abnormal Alarm	43
1.80 0062-2 Intra-rack par. cable abnormal Alarm	44
1.81 0062-3 Intra-rack par. cable abnormal Alarm	44
1.82 0062-5 Intra-rack par. cable abnormal Alarm	45
1.83 0063-1 Intra-rack par. cable Alarm	46
1.84 0063-2 Intra-rack par. cable Alarm	46
1.85 0063-3 Intra-rack par. cable Alarm	47
1.86 0063-4 Intra-rack par. cable Alarm	48
1.87 0042-4 Internal fault Alarm	48
1.88 0044-4 Version incompatible Alarm	49
1.89 0044-5 Version incompatible Alarm	49
1.90 0044-6 Version incompatible Alarm	50
1.91 0044-22 Version incompatible Alarm	50
1.92 0564-1 Overload timeout Alarm	51
1.93 0565-1 Load impact transfer-to-bypass Alarm	52
1.94 0566-1 Output overload Alarm	52
1.95 0068-1 Inverter self-check abnormal Alarm	53
1.96 0068-2 Inverter self-check abnormal Alarm	53
1.97 0068-3 Inverter self-check abnormal Alarm	54
1.98 0068-4 Inverter self-check abnormal Alarm	54
1.99 0570-1 BPM unit abnormal Alarm	55
1.100 0570-2 BPM unit abnormal Alarm	55
1.101 0570-3 BPM unit abnormal Alarm	56
1.102 0570-4 BPM unit abnormal Alarm	57
1.103 0570-5 BPM unit abnormal Alarm	58
1.104 0570-6 BPM unit abnormal Alarm	58
1.105 0062-6 Intra-rack par. cable abnormal Alarm	59
1.106 0063-5 Intra-rack par. cable Alarm	59
1.107 0042-5 Internal fault Alarm	60
1.108 0042-6 Internal fault Alarm	60
1.109 0043-2 Fan abnormal Alarm	61
1.110 0044-7 Version incompatible Alarm	61
1.111 0044-8 Version incompatible Alarm	62
1.112 0044-9 Version incompatible Alarm	62
1.113 0044-23 Version incompatible Alarm	63
1.114 0047-2 Not ready Alarm	63
1.115 0080-1 ECM1 abnormal Alarm.....	64
1.116 0081-1 ECM abnormal Alarm.....	64

1.117 0082-1 ECM Alarm.....	65
1.118 0082-2 ECM Alarm.....	65
1.119 0062-7 Intra-rack par. cable abnormal Alarm	66
1.120 0062-10 Intra-rack par. cable abnormal Alarm	67
1.121 0583-1 Inter-rack par. cable abnormal Alarm	67
1.122 0583-3 Inter-rack par. cable abnormal Alarm	68
1.123 0583-4 Inter-rack par. cable abnormal Alarm	68
1.124 0583-5 Inter-rack par. cable abnormal Alarm	69
1.125 0583-6 Inter-rack par. cable abnormal Alarm	69
1.126 0584-2 Inter-rack par. cable Alarm	70
1.127 0584-4 Inter-rack par. cable Alarm	70
1.128 0042-7 Internal fault Alarm	71
1.129 0042-8 Internal fault Alarm	71
1.130 0044-10 Version incompatible Alarm	72
1.131 0044-11 Version incompatible Alarm	72
1.132 0044-12 Version incompatible Alarm	73
1.133 0044-24 Version incompatible Alarm	73
1.134 0085-1 EPO Alarm	74
1.135 0086-1 Max. number of BPM transfers Alarm	75
1.136 0087-1 System transfer-to-bypass Alarm.....	75
1.137 0088-1 Rack address conflict Alarm.....	76
1.138 0089-1 Rack output overload Alarm.....	76
1.139 0090-1 Dry contact board fault Alarm	77
1.140 0090-2 Dry contact board fault Alarm	77
1.141 0091-1 Dry contact board 12 V undervoltage Alarm.....	78
1.142 0091-2 Dry contact board 12 V undervoltage Alarm.....	78
1.143 0092-1 BCB fault Alarm.....	79
1.144 0093-1 Bypass overcurrent Alarm	79
1.145 0594-1 Insufficient redundant racks Alarm.....	80
1.146 0095-1 Insuffi. redundancy Alarm.....	80
1.147 0096-1 ECO volt. Abnormal Alarm.....	81
1.148 0097-1 ECM2 abnormal Alarm	81
1.149 0098-1 Bypass current not shared Alarm.....	82
1.150 0150-1 Inverter asynchronous Alarm.....	83
1.151 0047-3 Not ready Alarm	83
1.152 0100-1 System BPM unit abnormal Alarm.....	84
1.153 0101-1 BSC signal abnormal Alarm.....	84
1.154 0102-1 Maint. breaker misoperation Alarm.....	85
1.155 0103-1 Input surge arrester Alarm	86
1.156 0105-1 Communication failure Alarm	86
1.157 0105-2 Communication failure Alarm	87
1.158 0105-3 Communication failure Alarm	87

1.159 0105-4 Communication failure Alarm	88
1.160 0105-6 Communication failure Alarm	88
1.161 0106-1 Configuration failure Alarm	89
1.162 0106-2 Configuration failure Alarm	89
1.163 0106-3 Configuration failure Alarm	90
1.164 0106-4 Configuration failure Alarm	90
1.165 0111-1 Rack communication failure Alarm	91
1.166 0111-2 Rack communication failure Alarm	91
1.167 0111-3 Rack communication failure Alarm	92
1.168 0111-4 Rack communication failure Alarm	92
1.169 0111-5 Rack communication failure Alarm	93
1.170 0111-6 Rack communication failure Alarm	93
1.171 0112-1 Networking mode conflict Alarm	94
1.172 0112-2 Networking mode conflict Alarm	94
1.173 0112-3 Networking mode conflict Alarm	95
1.174 0112-4 Networking mode conflict Alarm	95
1.175 0112-5 Networking mode conflict Alarm	96
1.176 0112-6 Networking mode conflict Alarm	96
1.177 0113-1 Rack quantity mismatch Alarm.....	97
1.178 0114-1 Module quantity mismatch Alarm	97
1.179 0114-2 Module quantity mismatch Alarm	98
1.180 0124-1 Power Cell Num Dismatch Alarm	98
1.181 0119-1 Upgrading Alarm	99
1.182 0119-2 Upgrading Alarm	99
1.183 0119-3 Upgrading Alarm	100
1.184 0119-4 Upgrading Alarm	100
1.185 0121-1 Upgrade failed Alarm	101
1.186 0121-2 Upgrade failed Alarm	101
1.187 0121-3 Upgrade failed Alarm	102
1.188 0121-4 Upgrade failed Alarm	102
1.189 0122-1 Program abnormal Alarm	103
1.190 0122-2 Program abnormal Alarm	103
1.191 0122-3 Program abnormal Alarm	104
1.192 0122-4 Program abnormal Alarm	104
1.193 0123-1 Node address conflict Alarm	105
1.194 0123-2 Node address conflict Alarm	105
1.195 0123-3 Node address conflict Alarm	106
1.196 0123-4 Node address conflict Alarm	106
1.197 0125-1 Inconsistent parallel param. Alarm	107
1.198 0043-3 Fan abnormal Alarm	107
1.199 0043-4 Fan abnormal Alarm	108
1.200 0044-13 Version incompatible Alarm	108

1.201 0044-14 Version incompatible Alarm	109
1.202 0044-15 Version incompatible Alarm	109
1.203 0044-16 Version incompatible Alarm	110
1.204 0044-17 Version incompatible Alarm	110
1.205 0044-18 Version incompatible Alarm	111
1.206 0044-19 Version incompatible Alarm	111
1.207 0044-20 Version incompatible Alarm	112
1.208 0044-25 Version incompatible Alarm	112
1.209 0044-26 Version incompatible Alarm	113
1.210 0044-27 Version incompatible Alarm	113
1.211 0044-28 Version incompatible Alarm	114
1.212 0044-29 Version incompatible Alarm	114
1.213 0044-30 Version incompatible Alarm	115
1.214 0044-31 Version incompatible Alarm	115
1.215 0044-32 Version incompatible Alarm	116
1.216 0044-41 Version incompatible Alarm	116
1.217 0115-1 Single-battery overvoltage Alarm	117
1.218 0115-25 Single-battery overvoltage Alarm	117
1.219 0115-26 Single-battery overvoltage Alarm	118
1.220 0140-1 Inconsistent charge voltage Alarm.....	118
1.221 0140-2 Inconsistent charge voltage Alarm.....	119
1.222 0140-3 Inconsistent charge voltage Alarm.....	119
1.223 0140-4 Inconsistent charge voltage Alarm.....	120
1.224 0140-5 Inconsistent charge voltage Alarm.....	120
1.225 0140-6 Inconsistent charge voltage Alarm.....	121
1.226 0140-7 Inconsistent charge voltage Alarm.....	121
1.227 0140-8 Inconsistent charge voltage Alarm.....	122
1.228 0140-9 Inconsistent charge voltage Alarm.....	122
1.229 0140-10 Inconsistent charge voltage Alarm.....	123
1.230 0140-11 Inconsistent charge voltage Alarm.....	123
1.231 0140-12 Inconsistent charge voltage Alarm.....	124
1.232 0140-13 Inconsistent charge voltage Alarm.....	125
1.233 0140-14 Inconsistent charge voltage Alarm.....	125
1.234 0140-15 Inconsistent charge voltage Alarm.....	126
1.235 0140-16 Inconsistent charge voltage Alarm.....	126
1.236 0140-17 Inconsistent charge voltage Alarm.....	127
1.237 0140-18 Inconsistent charge voltage Alarm.....	127
1.238 0140-19 Inconsistent charge voltage Alarm.....	128
1.239 0140-20 Inconsistent charge voltage Alarm.....	128
1.240 0140-21 Inconsistent charge voltage Alarm.....	129
1.241 0140-22 Inconsistent charge voltage Alarm.....	129
1.242 0140-23 Inconsistent charge voltage Alarm.....	130

1.243 0140-24 Inconsistent charge voltage Alarm.....	131
1.244 0140-25 Inconsistent charge voltage Alarm.....	131
1.245 0140-26 Inconsistent charge voltage Alarm.....	132
1.246 0141-1 Inconsistent discharge voltage Alarm.....	132
1.247 0141-2 Inconsistent discharge voltage Alarm.....	133
1.248 0141-3 Inconsistent discharge voltage Alarm.....	133
1.249 0141-4 Inconsistent discharge voltage Alarm.....	134
1.250 0141-5 Inconsistent discharge voltage Alarm.....	134
1.251 0141-6 Inconsistent discharge voltage Alarm.....	135
1.252 0141-7 Inconsistent discharge voltage Alarm.....	135
1.253 0141-8 Inconsistent discharge voltage Alarm.....	136
1.254 0141-9 Inconsistent discharge voltage Alarm.....	137
1.255 0141-10 Inconsistent discharge voltage Alarm.....	137
1.256 0141-11 Inconsistent discharge voltage Alarm.....	138
1.257 0141-12 Inconsistent discharge voltage Alarm.....	138
1.258 0141-13 Inconsistent discharge voltage Alarm.....	139
1.259 0141-14 Inconsistent discharge voltage Alarm.....	139
1.260 0141-15 Inconsistent discharge voltage Alarm.....	140
1.261 0141-16 Inconsistent discharge voltage Alarm.....	140
1.262 0141-17 Inconsistent discharge voltage Alarm.....	141
1.263 0141-18 Inconsistent discharge voltage Alarm.....	141
1.264 0141-19 Inconsistent discharge voltage Alarm.....	142
1.265 0141-20 Inconsistent discharge voltage Alarm.....	143
1.266 0141-21 Inconsistent discharge voltage Alarm.....	143
1.267 0141-22 Inconsistent discharge voltage Alarm.....	144
1.268 0141-23 Inconsistent discharge voltage Alarm.....	144
1.269 0141-24 Inconsistent discharge voltage Alarm.....	145
1.270 0141-25 Inconsistent discharge voltage Alarm.....	145
1.271 0141-26 Inconsistent discharge voltage Alarm.....	146
1.272 0142-1 Inconsistent hibernation voltage Alarm.....	146
1.273 0142-2 Inconsistent hibernation voltage Alarm.....	147
1.274 0142-3 Inconsistent hibernation voltage Alarm.....	147
1.275 0142-4 Inconsistent hibernation voltage Alarm.....	148
1.276 0142-5 Inconsistent hibernation voltage Alarm.....	149
1.277 0142-6 Inconsistent hibernation voltage Alarm.....	149
1.278 0142-7 Inconsistent hibernation voltage Alarm.....	150
1.279 0142-8 Inconsistent hibernation voltage Alarm.....	150
1.280 0142-9 Inconsistent hibernation voltage Alarm.....	151
1.281 0142-10 Inconsistent hibernation voltage Alarm.....	151
1.282 0142-11 Inconsistent hibernation voltage Alarm.....	152
1.283 0142-12 Inconsistent hibernation voltage Alarm.....	152
1.284 0142-13 Inconsistent hibernation voltage Alarm.....	153

1.285 0142-14 Inconsistent hibernation voltage Alarm	153
1.286 0142-15 Inconsistent hibernation voltage Alarm	154
1.287 0142-16 Inconsistent hibernation voltage Alarm	155
1.288 0142-17 Inconsistent hibernation voltage Alarm	155
1.289 0142-18 Inconsistent hibernation voltage Alarm	156
1.290 0142-19 Inconsistent hibernation voltage Alarm	156
1.291 0142-20 Inconsistent hibernation voltage Alarm	157
1.292 0142-21 Inconsistent hibernation voltage Alarm	157
1.293 0142-22 Inconsistent hibernation voltage Alarm	158
1.294 0142-23 Inconsistent hibernation voltage Alarm	158
1.295 0142-24 Inconsistent hibernation voltage Alarm	159
1.296 0142-25 Inconsistent hibernation voltage Alarm	159
1.297 0142-26 Inconsistent hibernation voltage Alarm	160
1.298 0117-1 BMU communication failure Alarm	161
1.299 0118-1 BMU quantity mismatch Alarm.....	161
1.300 0126-1 Door Alarm.....	162
1.301 0127-1 Water Alarm.....	162
1.302 0128-1 Copper Bar Over Temp Warn Alarm	163
1.303 0129-1 Input Transf Over Temp Warn Alarm	163
1.304 0130-1 Output Transf Over Temp Warn Alarm.....	164
1.305 0132-1 MUE07A communication failure Alarm	164
1.306 0139-1 Dry contact extended card com. fail. Alarm	165
1.307 0131-1 Ambient overtemperature Alarm	165
1.308 0137-1 Ambient sensor comm. failure Alarm	166
1.309 0137-2 Ambient sensor comm. failure Alarm	166
1.310 0137-3 Ambient sensor comm. failure Alarm	167
1.311 0137-4 Ambient sensor comm. failure Alarm	167
1.312 0138-1 Ambient sensor quantity mismatch Alarm.....	168
1.313 0156-1 Incorrect system time Alarm.....	168
1.314 0148-1 The ATS is faulty. Alarm	169
1.315 0157-1 UPS model read fail. Alarm.....	169
1.316 0060-23 Inverter abnormal Alarm	170
1.317 0048-1 BCB open abnormally Alarm	170
1.318 0165-1 BPM unit Alarm	171
1.319 0061-10 Inverter Alarm	171
1.320 0169-1 System transfer-to-inverter mode Alarm	172
1.321 0170-1 No system output Alarm	172
1.322 0122-5 Program abnormal Alarm	173
1.323 0122-6 Program abnormal Alarm	173
1.324 0122-7 Program abnormal Alarm	174
1.325 0044-42 Version incompatible Alarm	175
1.326 0171-1 Incon. bypass paral. cable con. Alarm	175

1.327 0062-14 Intra-rack par. cable abnormal Alarm	176
1.328 0063-12 Intra-rack par. cable Alarm	176
1.329 0040-26 Rectifier abnormal Alarm	177
1.330 0060-27 Inverter abnormal Alarm	177
1.331 0060-28 Inverter abnormal Alarm	178
1.332 0172-1 Bypass overload timeout Alarm	178
1.333 0173-1 EOD non-startup Alarm.....	179
1.334 0174-1 Software package not exist Alarm	179
1.335 0060-29 Inverter abnormal Alarm	180
1.336 0062-15 Intra-rack par. cable abnormal Alarm	180
1.337 0175-1 Rack power status conflicts. Alarm	181
1.338 0045-12 Charger Alarm	182
1.339 0176-1 DIP switch settings conflict. Alarm	182
1.340 0040-27 Rectifier abnormal Alarm	183
1.341 0177-1 Self-startup times limit Alarm	183
1.342 0178-1 Abnormal node address Alarm	184
1.343 0063-13 Intra-rack par. cable Alarm	185
1.344 0179-1 Abnormal intern. Resistance Alarm.....	185
1.345 0179-2 Abnormal intern. Resistance Alarm.....	186
1.346 0180-1 BIM comm. Failure Alarm	186
1.347 0180-2 BIM comm. Failure Alarm	187
1.348 0181-1 CIM comm. failure Alarm	188
1.349 0182-1 CIM qty. mismatch Alarm	188
1.350 0183-1 Inconsistent BIM versions Alarm	189
1.351 0184-1 BSC dry contact comm. failure Alarm	189
1.352 0185-1 Bus capacitor lifespan warning Alarm.....	190
1.353 0004-3 Mains ph. Reversed Alarm	190
1.354 0186-1 Incon. outp. parall. cable con. Alarm.....	191
1.355 0188-1 Abnormal BTG power volt. Alarm	191
1.356 0189-1 Battery overcharge Alarm.....	192
1.357 0190-1 Battery over-discharge Alarm.....	192
1.358 0148-2 ATS fault Alarm.....	193
1.359 0148-3 ATS fault Alarm.....	193
1.360 0148-4 ATS fault Alarm.....	194
1.361 0148-5 ATS fault Alarm.....	194
1.362 0148-6 ATS fault Alarm.....	195
1.363 0148-7 ATS fault Alarm.....	195
1.364 0148-8 ATS fault Alarm.....	196
1.365 0148-9 ATS fault Alarm.....	196
1.366 0148-10 ATS fault Alarm.....	197
1.367 0148-11 ATS fault Alarm	197
1.368 0103-2 Input surge arrester Alarm	198

1.369 0191-1 Main overfrequency Alarm.....	198
1.370 0192-1 Main underfrequency Alarm.....	199
1.371 0193-1 Mains three-phase current imbalance Alarm	199
1.372 0194-1 Detection board communication failure Alarm	200
1.373 0195-1 Detection board meter chip abnormal Alarm.....	200
1.374 0199-1 Mains undercurrent Alarm.....	201
1.375 0207-1 High mains THDu Alarm	201
1.376 0208-1 High mains THDi Alarm	202
1.377 0213-1 QF1 Branch temperature abnormal Alarm.....	202
1.378 0213-24 QF24 Branch temperature abnormal Alarm.....	203
1.379 0214-1 Module type not support Alarm.....	203
1.380 0215-1 Inverter off in ECO mode Alarm	204
1.381 0216-1 ATS backup power abnormal Alarm.....	204
1.382 0217-1 Backup ECM not switchable Alarm	205
1.383 0227-1 Charge overcurrent Alarm	205
1.384 0229-1 Web cert. to expire Alarm	206
1.385 0230-1 Web cert. has expired Alarm.....	206
1.386 0231-1 Web cert. not effect Alarm.....	207
1.387 0232-1 Modbus TCP cert. to expire Alarm	207
1.388 0233-1 Modbus TCP cert. expired Alarm	208
1.389 0234-1 Modbus TCP cert. not effect Alarm.....	208
1.390 0021-3 Battery EOD Alarm	209
1.391 0041-10 Rectifier Alarm	209
1.392 0046-4 Discharger abnormal Alarm.....	210
1.393 0045-13 Charger Alarm	210
1.394 0235-1 Batt. Relay Open Fault Alarm	211
1.395 0236-1 Batt. Short-circuit Fault Relay Alarm.....	211
1.396 0237-1 Balancing Circuit Abnormality Alarm.....	212
1.397 0238-1 Mains phase open Alarm	212
1.398 0238-2 Mains phase open Alarm	213
1.399 0238-3 Mains phase open Alarm	213
1.400 0239-1 Mains no input Alarm.....	214
1.401 0242-1 Batt. Relay Close Check Fault Alarm.....	214
1.402 0243-1 Air filter maintenance reminder Alarm.....	215
1.403 0244-1 Byp Running Derated Alarm	215
1.404 0177-2 Self-startup times limit Alarm	216
1.405 0049-1 Incorrect battery quantity Alarm.....	216
1.406 0040-28 Rectifier abnormal Alarm	217
1.407 0040-29 Rectifier abnormal Alarm	217
1.408 0420-1 UPS type mismatch Alarm	218
1.409 0044-33 Version incompatible Alarm	219
1.410 0044-34 Version incompatible Alarm	219

1.411 0044-35 Version incompatible Alarm	220
1.412 0044-36 Version incompatible Alarm	220
1.413 0111-7 Rack communication failure Alarm	221
1.414 0597-1 Absent optional BSC card Alarm.....	221
1.415 0598-1 BSC frequency beyond range Alarm	222
1.416 0599-1 Incorrect BSC mode setting Alarm.....	222
1.417 0026-3 Low battery voltage Alarm	223
1.418 0600-1 Fan life warning Alarm.....	223
1.419 0600-2 Fan life warning Alarm.....	224
1.420 0530-2 Battery ground fault Alarm.....	224
1.421 0610-1 Output ground fault Alarm	225
1.422 0611-1 Bus ground fault Alarm	225
1.423 0060-30 Inverter abnormal Alarm	226
1.424 0247-1 Battery test ended abnormally Alarm	226
1.425 0356-1 Battery Mode Alarm	227
1.426 0357-1 Source-share mode Alarm	227
1.427 0358-1 Bypass Mode Alarm	228
1.428 0359-1 No power supplied Alarm.....	229
1.429 0363-1 Insufficient inverter start capacity Alarm	229
1.430 0336-1 PDC Mains input breaker open Alarm.....	230
1.431 0337-1 PDC bypass input breaker open Alarm.....	230
1.432 0338-1 PDC output breaker open Alarm	231
1.433 0341-1 PDC Maint. breaker closed Alarm.....	231
1.434 0342-1 Mains input breaker open Alarm	232
1.435 0343-1 BPM input breaker open Alarm.....	232
1.436 0344-1 Output breaker open Alarm	233
1.437 0347-1 Sys maint. breaker closed Alarm	233
1.438 0348-1 Sys output breaker open Alarm	234
1.439 0612-1 Battery module fault Alarm	234
1.440 0612-2 Battery module fault Alarm	235
1.441 0021-5 Battery EOD Alarm	236
1.442 0024-2 Battery undertemperature Alarm	236
1.443 0023-2 Battery overtemperature Alarm	237
1.444 0025-2 Battery overvoltage Alarm.....	237
1.445 0026-4 Battery undervoltage Alarm.....	238
1.446 0616-1 Battery undertemperature protection Alarm	238
1.447 0031-2 Battery overtemperature protection Alarm	239
1.448 0032-3 Battery overvoltage protection Alarm	239
1.449 0617-1 Battery undervoltage protection Alarm	240
1.450 0612-5 Battery module fault Alarm	240
1.451 0612-6 Battery module fault Alarm	241
1.452 0612-7 Battery module fault Alarm	242

1.453 0025-3 Battery overvoltage Alarm.....	242
1.454 0027-2 Battery overcurrent Alarm.....	243
1.455 0026-5 Low battery voltage Alarm.....	243
1.456 0027-3 Battery overcurrent Alarm.....	244
1.457 0617-2 Battery undervoltage protection Alarm.....	244
1.458 0621-3 Battery overcurrent protection Alarm.....	245
1.459 0032-5 Battery overvoltage protection Alarm.....	245
1.460 0620-6 Battery control unit fault Alarm.....	246
1.461 0620-7 Battery control unit fault Alarm.....	246
1.462 0620-8 Battery control unit fault Alarm.....	247
1.463 0625-1 Inter-battery cabinet parallel cable Alarm.....	247
1.464 0625-2 Inter-battery cabinet parallel cable Alarm.....	248
1.465 0635-1 Battery module not detected Alarm.....	248
1.466 0619-1 BCB tripping fault Alarm.....	249
1.467 0362-4 BCB off Alarm.....	249
1.468 0620-1 Battery control unit fault Alarm.....	250
1.469 0620-2 Battery control unit fault Alarm.....	251
1.470 0620-3 Battery control unit fault Alarm.....	251
1.471 0620-4 Battery control unit fault Alarm.....	252
1.472 0043-14 Fan abnormal Alarm.....	252
1.473 0621-1 Battery overcurrent protection Alarm.....	253
1.474 0621-2 Battery overcurrent protection Alarm.....	253
1.475 0623-1 Battery cabinet EPO Alarm.....	254
1.476 0624-4 Not ready Alarm.....	254
1.477 0620-5 Battery control unit fault Alarm.....	255
1.478 0032-4 Battery overvoltage protection Alarm.....	255
1.479 0628-1 Abnormal signal board Alarm.....	256
1.480 0629-1 Abnormal inter-battery cabinet parallel cable Alarm.....	256
1.481 0629-2 Abnormal inter-battery cabinet parallel cable Alarm.....	257
1.482 0629-3 Abnormal inter-battery cabinet parallel cable Alarm.....	258
1.483 0630-1 Abnormal intra-battery cabinet parallel cable Alarm.....	258
1.484 0630-2 Abnormal intra-battery cabinet parallel cable Alarm.....	259
1.485 0630-3 Abnormal intra-battery cabinet parallel cable Alarm.....	259
1.486 0620-9 Battery control unit fault Alarm.....	260
1.487 0631-2 Version incompatible Alarm.....	260
1.488 0631-3 Version incompatible Alarm.....	261
1.489 0631-4 Version incompatible Alarm.....	261
1.490 0631-1 Version incompatible Alarm.....	262
1.491 0632-1 Lithium battery system communication failure Alarm.....	262
1.492 0174-2 Software package not exist Alarm.....	263
1.493 0246-2 Batt.cabinet quantity mismatch Alarm.....	263
1.494 0633-1 Lithium battery capacity mismatch Alarm.....	264

1.495 0637-1 DI Alarm	264
1.496 0636-1 Battery module balance Alarm	265
1.497 0636-2 Battery module balance Alarm	266
1.498 0636-3 Battery module balance Alarm	266
1.499 0620-10 Battery control unit fault Alarm.....	267
1.500 0620-11 Battery control unit fault Alarm.....	267
1.501 0620-12 Battery control unit fault Alarm.....	268
1.502 0021-6 Battery EOD Alarm	268
1.503 0220-3 Abnormal SOH Alarm	269
1.504 0612-8 Battery module fault Alarm	269
1.505 0612-9 Battery module fault Alarm	270
1.506 0613-1 Battery module alarm	270
1.507 0653-1 Intra-battery cabinet parallel cable alarm	271
1.508 0044-46 Version incompatible alarm	271
1.509 0613-2 Battery module alarm	272
1.510 0613-4 Battery module alarm	272
1.511 0613-5 Battery module alarm	273
1.512 0613-6 Battery module alarm	273
1.513 0613-7 Battery module alarm	274
1.514 0613-3 Battery module alarm	274
1.515 0612-10 Battery module fault alarm.....	275
1.516 0654-1 Inner temperature alarm.....	275
1.517 0638-11 Inner temperature abnormal alarm.....	276
1.518 0114-3 Module quantity mismatch alarm	276
1.519 0655-1 Battery control unit alarm.....	277
1.520 0655-2 Battery control unit alarm.....	277
1.521 0620-14 Battery control unit fault alarm.....	278
1.522 0655-3 Battery control unit alarm.....	278
1.523 0620-15 Battery control unit fault alarm.....	279
1.524 0642-1 Battery contactor fault alarm	280
1.525 0644-1 Smoke alarm	280
1.526 0530-3 Battery ground fault alarm.....	281
1.527 0654-2 Inner temperature alarm.....	281
1.528 0654-3 Inner temperature alarm.....	282
1.529 0654-4 Inner temperature alarm.....	283
1.530 0638-12 Inner temperature abnormal alarm.....	283
1.531 0638-13 Inner temperature abnormal alarm.....	284
1.532 0638-14 Inner temperature abnormal alarm.....	285
1.533 0044-47 Version incompatible alarm	285
1.534 0646-1 Switch abnormal alarm.....	286
1.535 0647-1 Switch off alarm	287
1.536 0647-2 Switch off alarm	287

1.537 0127-2 Water alarm.....	288
1.538 0620-16 Battery control unit fault alarm.....	288
1.539 0649-1 Temperature sensor abnormal alarm.....	289
1.540 0649-2 Temperature sensor abnormal alarm.....	289
1.541 0649-3 Temperature sensor abnormal alarm.....	290
1.542 0649-4 Temperature sensor abnormal alarm.....	290
1.543 0649-5 Temperature sensor abnormal alarm.....	291
1.544 0649-6 Temperature sensor abnormal alarm.....	291
1.545 0020-2 Battery reversal alarm.....	292
1.546 0620-17 Battery control unit fault alarm.....	293
1.547 0620-18 Battery control unit fault alarm.....	293
1.548 0128-2 Copper Bar Over Temp Warn alarm	294
1.549 0651-1 Fire extinguisher started alarm	294
1.550 0652-1 Incorrect battery module wiring alarm	295
1.551 0617-3 Battery undervoltage protection alarm	295

1 UPS5000 and SmartLi Alarm Reference

1.1 0001-1 Mains voltage abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0001-1	Minor	Environmental alarm

Impact on the System

- If batteries are installed, the rectifier transfers to battery mode, which does not affect the system power supply.
- If no battery is installed, the module shuts down.

Possible Causes

- The cable connection is incorrect.
- The mains is abnormal.
- The power module is faulty.

Procedure

Step 1 Check whether cables to the mains are disconnected, loose, or incorrectly connected.

Step 2 If cable connections are correct, measure the mains voltage with a multimeter. If the mains voltage exceeds 280 V, the mains input is abnormal; if the mains voltage is less than 272 V, the power module sampling circuit may be abnormal. Replace the faulty module.

----End

1.2 0001-2 Mains voltage abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0001-2	Minor	Environmental alarm

Impact on the System

- If batteries are installed, the rectifier transfers to battery mode, which does not affect the system power supply.
- If no battery is installed, the module shuts down.

Possible Causes

- The cable connection is incorrect.
- The mains is abnormal.
- The mains input fuse for the power module is blown.

Procedure

Step 1 Check whether cables to the mains are disconnected, loose, or incorrectly connected.

Step 2 If cable connections are correct, measure the mains voltage with a multimeter. If the mains voltage is less than 80 V, the mains voltage is abnormal; if the mains voltage exceeds 88 V, the power module sampling circuit or fuse may be abnormal. Replace the faulty module.

----End

1.3 0001-3 Mains voltage abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0001-3	Minor	Environmental alarm

Impact on the System

- If batteries are installed, the rectifier transfers to battery mode, which does not affect the system power supply.
- If no battery is installed, the module shuts down.

Possible Causes

The mains is abnormal.

Procedure

Step 1 Check the mains.

----End

1.4 0004-1 Mains ph. Reversed Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0004-1	Minor	Environmental alarm

Impact on the System

The system power supply is not affected.

Possible Causes

Cable connections are incorrect.

Procedure

Step 1 Check cable connections.

----End

1.5 0005-1 Mains neutral absent Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0005-1	Minor	Environmental alarm

Impact on the System

- If batteries are installed, the rectifier transfers to battery mode, which does not affect the system power supply.
- If no battery is installed, the module shuts down.

Possible Causes

Cable connections are incorrect.

Procedure

Step 1 Secure or connect the neutral wire to the cabinet if it is loose or disconnected.

Step 2 Check whether the neutral wire to the power distribution system is normal.

----End

1.6 0006-1 Mains undervoltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0006-1	Minor	Environmental alarm

Impact on the System

The rectifier is derated, which affects the rated power of the system. If the system carries heavy loads, the module may transfer to battery mode or shut down (the inverter shuts down if there is no battery). Consequently, the charger will be derated or shut down.

Possible Causes

- The mains is abnormal.
- The power module sampling circuit is abnormal.

Procedure

Step 1 Check whether the mains voltage ranges from 80 V (excluding 80 V) to 176 V. If not, the mains monitoring circuit of the power module may be faulty. Replace the faulty module.

----End

1.7 0010-1 Abnormal bypass voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0010-1	Minor	Environmental alarm

Impact on the System

- If the bypass is supplying power and the inverter can be loaded, the system transfers to inverter mode.

- If the ECO bypass is supplying power and the inverter can supply power, the system transfers to inverter mode.
- If the power is not supplied by the bypass, the system cannot transfer to bypass mode.
- If the system is working in self-load mode, the system has no output.

Possible Causes

- The bypass voltage range is not correctly set.
- The bypass input voltage is abnormal.

Procedure

Step 1 Check the bypass input voltage or cable connections with a multimeter.

Step 2 Check the voltage system and bypass voltage thresholds configured on the LCD.

----End

1.8 0010-2 Abnormal bypass voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0010-2	Minor	Environmental alarm

Impact on the System

- If the bypass is supplying power, the system stops power supply.
- If the ECO bypass is supplying power, the system transfers to inverter mode.
- If the power is not supplied by the bypass, the system cannot transfer to bypass mode.

Possible Causes

- The bypass frequency range is not correctly set.
- The bypass input frequency is abnormal.

Procedure

Step 1 Check the bypass input voltage or cable connections with a multimeter.

Step 2 Check the bypass input frequency. Check the rated frequency and frequency range configured on the LCD.

----End

1.9 0011-1 Bypass phase reversed Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0011-1	Minor	Environmental alarm

Impact on the System

- If the bypass is supplying power, the system stops power supply.
- If the ECO bypass is supplying power, the system transfers to inverter mode.
- If the power is not supplied by the bypass, the system cannot transfer to bypass mode.

Possible Causes

The three-phase bypass input phase sequence is reversed.

Procedure

- Step 1** Use a phase sequence meter to check whether the cable phase sequence is correct. If a meter is not available, try exchanging the positions of any two cables.

----End

1.10 0012-1 Bypass neutral absent Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0012-1	Minor	Environmental alarm

Impact on the System

- If the bypass is supplying power, the system stops power supply.
- If the ECO bypass is supplying power, the system transfers to inverter mode.
- If the power is not supplied by the bypass, the system cannot transfer to bypass mode.

Possible Causes

The bypass input neutral wire is lost.

Procedure

- Step 1** Secure or connect the neutral wire to the cabinet if it is loose or disconnected.

Step 2 Check whether the neutral wire to the power distribution system is normal.

----End

1.11 0020-1 Battery connected reversely Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0020-1	Critical	Processing error alarm

Impact on the System

Charge and discharge cannot be performed.

Possible Causes

Batteries are not properly installed.

Procedure

Step 1 Check whether batteries are installed with correct polarity by using a multimeter. If not, correct the installation.

Step 2 Check whether the battery input voltage is normal. If it is normal, the battery sampling circuit of the power module is faulty. Replace the faulty power module.

----End

1.12 0021-1 Battery EOD Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0021-1	Critical	Quality of service alarm

Impact on the System

Battery power supply ends. The BCB (if installed) trips.

Possible Causes

The battery voltage reaches the EOD voltage.

Procedure

Step 1 If a BCB box is connected, turn on the switch in the BCB box.

----End

1.13 0021-2 Battery EOD Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0021-2	Critical	Quality of service alarm

Impact on the System

Battery power supply ends. The BCB (if installed) trips.

Possible Causes

The battery discharge time exceeds the discharge protection time.

Procedure

Step 1 Check the configured battery discharge protection time.

Step 2 Wait until the AC input recovers. Then the UPS starts automatically.

----End

1.14 0021-4 Battery EOD Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0021-4	Critical	Quality of service alarm

Impact on the System

Battery power supply ends. The BCB (if installed) trips.

Possible Causes

After shutdown in battery mode is enabled, the battery discharge time has reached the specified shutdown delay.

Procedure

Step 1 Check the configured battery discharge protection time.

Step 2 Wait until the AC input recovers. Then the UPS starts automatically.

----End

1.15 0022-1 No battery Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0022-1	Minor	Environmental alarm

Impact on the System

Charge and discharge cannot be performed.

Possible Causes

- There is no battery string.
- The battery string is not properly installed.
- The power module battery fuse is blown.

Procedure

Step 1 Check that battery cables are correctly connected.

Step 2 Check that the battery terminal voltage is normal.

Step 3 Check that the battery fuse in the power module is intact.

----End

1.16 0023-1 Battery overtemperature Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0023-1	Minor	Environmental alarm

Impact on the System

The charge current limit is reduced.

Possible Causes

- The ambient temperature in the battery room exceeds the upper threshold.
- The battery string is short-circuited.
- The battery string is not securely connected.

Procedure

- Step 1** Check whether the battery overtemperature alarm threshold is correctly set.
- Step 2** Check the ambient temperature in the battery room. If the temperature is high, improve heat dissipation.
- Step 3** Check that no short circuit occurs inside batteries.
- Step 4** Check that batteries are securely connected.
- End

1.17 0024-1 Battery undertemperature Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0024-1	Minor	Environmental alarm

Impact on the System

No action is involved. The battery backup time is affected.

Possible Causes

The ambient temperature in the battery room is less than the lower threshold.

Procedure

- Step 1** Check whether the battery undertemperature alarm threshold is correctly set.
- Step 2** Check the ambient temperature in the battery room. If the temperature is less than the configured value, the battery temperature monitoring circuit may be abnormal.
- End

1.18 0025-1 Battery overvoltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0025-1	Minor	Equipment alarm

Impact on the System

The charge current limit is reduced.

Possible Causes

- The configured number of batteries is less than the actual number.
- The battery neutral wire is absent.

Procedure

- Step 1** Check whether battery parameters are correctly set.
- Step 2** If they are correctly set, certain batteries may be faulty.
- Step 3** Check whether the battery neutral wire is correctly connected.

----End

1.19 0026-1 Low battery voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0026-1	Minor	Equipment alarm

Impact on the System

No action is involved. Continuing to discharge will result in system shutdown due to EOD.

Possible Causes

- Battery discharge results in low battery voltage.
- The battery neutral wire is absent.
- The charger is faulty.

Procedure

- Step 1** If the low battery voltage alarm is raised in battery mode, check whether the mains voltage recovers. If so, charge batteries immediately.
- Step 2** Check whether the battery neutral wire is correctly connected.

Step 3 If this alarm is raised in mains inverter mode, check whether the battery switch is ON. If so, the charger may be faulty. Replace the related power module.

----End

1.20 0527-1 Battery charging overcurrent Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0527-1	Minor	Equipment alarm

Impact on the System

No action is involved. The battery lifespan is affected.

Possible Causes

The battery may be damaged.

Procedure

Step 1 Check the charger alarm status. If the charger is faulty, replace the faulty module.

Step 2 Check the battery lifespan. If the battery lifespan has expired, replace the battery.

----End

1.21 0530-1 Battery ground fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0530-1	Critical	Equipment alarm

Impact on the System

A battery grounding fault will cause the BCB to trip when it is ON.

Possible Causes

- The battery string is grounded.
- The battery ground monitoring cable is faulty.
- The dry contact board is faulty.

Procedure

- Step 1** Check whether the positive and negative terminals of the battery string are grounded or have sufficient resistance to the ground.
- Step 2** Check whether the battery grounding failure detector is faulty by replacing it with a new one.
- Step 3** If no battery grounding failure detector is available, check on the dry contact board whether the battery grounding failure detector is enabled. If yes, disable it and check whether the alarm is cleared. If the alarm persists, the dry contact board may be faulty. Replace the board.
- End

1.22 0531-1 Battery Overtemp. Protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0531-1	Minor	Environmental alarm

Impact on the System

Battery charging is stopped.

Possible Causes

- The ambient temperature exceeds the upper threshold.
- Battery terminals are not securely connected.
- The battery string is short-circuited.

Procedure

- Step 1** Check whether the ambient temperature in the battery room exceeds the upper threshold. If so, improve ventilation and heat dissipation.
- Step 2** Check that batteries are securely connected.
- Step 3** Check that no short circuit occurs inside batteries.
- End

1.23 0032-1 Battery overvoltage protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0032-1	Critical	Equipment alarm

Impact on the System

The charger cannot be started. Overvoltage may damage the module and cause a discharger startup failure. The system cannot transfer to battery mode if the mains is abnormal. Consequently, the module may shut down.

Possible Causes

- The battery voltage is greater than the upper threshold.
- The configured number of batteries is less than the actual number.
- The actual number of batteries does not meet requirements.

Procedure

Step 1 Check the battery voltage.

Step 2 Check that the configured number of batteries matches the actual number.

Step 3 Check that the actual number of batteries meets requirements.

----End

1.24 0033-1 Backup time warning Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0033-1	Minor	Equipment alarm

Impact on the System

No action is involved. Continuing to discharge will result in system shutdown due to EOD.

Possible Causes

The battery discharge lasts too long, resulting in insufficient backup time.

Procedure

Step 1 Check whether the mains input is abnormal. Recover it if necessary.

----End

1.25 0034-1 Remaining capacity warning Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0034-1	Minor	Equipment alarm

Impact on the System

No action is involved. Continuing to discharge will result in system shutdown due to EOD.

Possible Causes

The battery discharge lasts too long, resulting in insufficient remaining capacity.

Procedure

Step 1 Check whether the mains input is abnormal. Recover it if necessary.

----End

1.26 0036-2 Battery maintenance reminder Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0036-2	Warning	Equipment alarm

Impact on the System

No action is involved. An alarm is raised.

Possible Causes

The batteries are due for maintenance.

Procedure

Step 1 Maintain the batteries.

----End

1.27 0037-1 Battery undervoltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0037-1	Critical	Quality of service alarm

Impact on the System

The system cannot transfer to battery mode if the mains is abnormal. Consequently, the module may shut down.

Possible Causes

- The UPS works in battery mode for a long time.
- The charger is faulty.

Procedure

Step 1 Check whether the battery voltage is normal.

Step 2 Check whether the output is overloaded.

Step 3 Check whether any battery is damaged. Replace any damaged battery.

Step 4 Check whether any charger has raised an alarm. If a charger is damaged, replace the faulty module.

----End

1.28 0039-1 Batt. temp. sensor comm. Failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0039-1	Minor	Communications alarm

Impact on the System

No action is involved. The number of nodes for battery temperature detection decreases.

Possible Causes

The communications cable is incorrectly connected or disconnected. The DIP switch settings are incorrect.

Procedure

- Step 1** Check communications cable connections and DIP switch settings.
- Step 2** If the communications cable connections and DIP switch settings are normal, battery temperature sensor 1 may be damaged. Replace the sensor.
- End

1.29 0039-2 Batt. temp. sensor comm. Failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0039-2	Minor	Communications alarm

Impact on the System

No action is involved. The number of nodes for battery temperature detection decreases.

Possible Causes

The communications cable is incorrectly connected or disconnected. The DIP switch settings are incorrect.

Procedure

- Step 1** Check communications cable connections and DIP switch settings.
- Step 2** If the communications cable connections and DIP switch settings are normal, battery temperature sensor 2 may be damaged. Replace the sensor.
- End

1.30 0039-3 Batt. temp. sensor comm. Failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0039-3	Minor	Communications alarm

Impact on the System

The number of nodes for battery temperature detection decreases.

Possible Causes

The communications cable is incorrectly connected or disconnected. The DIP switch settings are incorrect.

Procedure

- Step 1** Check communications cable connections and DIP switch settings.
- Step 2** If the communications cable connections and DIP switch settings are normal, battery temperature sensor 3 may be damaged. Replace the sensor.
- End

1.31 0039-4 Batt. temp. sensor comm. Failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0039-4	Minor	Communications alarm

Impact on the System

The number of nodes for battery temperature detection decreases.

Possible Causes

The communications cable is incorrectly connected or disconnected. The DIP switch settings are incorrect.

Procedure

- Step 1** Check communications cable connections and DIP switch settings.
- Step 2** If the communications cable connections and DIP switch settings are normal, battery temperature sensor 4 may be damaged. Replace the sensor.
- End

1.32 0153-1 Batt. temp. sensor quantity mismatch Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0153-1	Minor	Equipment alarm

Impact on the System

The number of nodes for battery temperature detection decreases.

Possible Causes

The configured number of battery temperature sensors does not match the actual number.

Procedure

Step 1 Check that the configured number of battery temperature sensors matches the actual number.

Step 2 Check communications cable connections and DIP switch settings.

----End

1.33 0154-1 NTC failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0154-1	Minor	Equipment alarm

Impact on the System

The number of nodes for battery temperature detection decreases.

Possible Causes

The NTC is disconnected or damaged.

Procedure

Step 1 Connect a new NTC.

----End

1.34 0040-1 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-1	Critical	Equipment alarm

Impact on the System

The module cannot start.

Possible Causes

The mains input SCR or driver is damaged.

Procedure

Step 1 Replace the power unit or module.

----End

1.35 0040-2 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-2	Critical	Equipment alarm

Impact on the System

The module cannot start.

Possible Causes

The switching transistor is damaged, or the switching transistor drive signal is abnormal.

Procedure

Step 1 Replace the power unit or module.

----End

1.36 0040-3 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-3	Critical	Equipment alarm

Impact on the System

- The module can work only in battery mode, but not mains inverter mode.
- If a mains backfeed switch is equipped, the system cannot recover the mains power supply.
- After the battery EOD occurs, the system has no backup power supply.

Possible Causes

The mains SCR hardware is damaged.

Procedure

Step 1 Replace the power unit or module.

Step 2 If a mains backfeed switch is equipped, after the mains input circuit breaker trips, you need to turn on the backfeed switch manually.

----End

1.37 0040-4 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-4	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

- The mains power is overhigh.
- The bus capacitor or cable connection is faulty, or bus backfeed occurs on the inverter.

Procedure

Step 1 Check whether the mains input voltage exceeds 300 V AC. If the mains is normal, power on the UPS again and check whether the alarm is cleared.

Step 2 If the mains is normal and the alarm persists, replace the power module.

----End

1.38 0040-5 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-5	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

The module is damaged.

Procedure

Step 1 Replace the power unit or module.

----End

1.39 0040-6 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-6	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

The module is damaged.

Procedure

Step 1 Replace the power unit or module.

----End

1.40 0040-7 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-7	Critical	Equipment alarm

Impact on the System

- The module shuts down.
- The charger shuts down.

Possible Causes

- The fans for the power module are abnormal.
- The air channel of the power module is obstructed.

Procedure

Step 1 Check that the air channel of the module is free from blockage.

Step 2 Replace the power module if any fan is faulty.

----End

1.41 0040-8 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-8	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

The module is damaged.

Procedure

Step 1 Replace the power unit or module.

----End

1.42 0040-9 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-9	Critical	Equipment alarm

Impact on the System

- The power supply of the module and system is not affected.
- If no battery is installed, a mains overload occurs and the module shuts down.
- If batteries are installed, the system cannot transfer back to mains inverter mode after transferring to battery mode due to an overload.

Possible Causes

The module is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.43 0040-10 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-10	Critical	Communications alarm

Impact on the System

The module shuts down.

Possible Causes

The rectifier DSP and CPLD communication is abnormal.

Procedure

Step 1 Replace the power module.

----End

1.44 0041-1 Rectifier Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0041-1	Minor	Equipment alarm

Impact on the System

Online loading, fault recording, e-label reading, and parameter calibration functions cannot be properly used.

Possible Causes

- The I2C bus is abnormal and does not respond.
- The E2PROM is faulty.

Procedure

Step 1 Check whether the fault recurs after you rectify it manually.

Step 2 If the fault recurs, the E2PROM may be faulty. Replace the power module.

----End

1.45 0041-2 Rectifier Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0041-2	Minor	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

The module is damaged.

Procedure

Step 1 Clear the alarm manually.

Step 2 Replace the power unit or module.

----End

1.46 0042-1 Internal fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0042-1	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

The auxiliary power supply is faulty.

Procedure

Step 1 Clear the fault manually on the LCD.

Step 2 If the fault recurs, replace the power module.

----End

1.47 0042-14 Internal fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0042-14	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

The rectifier triggers an alarm, indicating that the auxiliary power supply is faulty.

Procedure

Step 1 Clear the fault manually on the LCD.

Step 2 If the fault recurs, replace the power module.

----End

1.48 0043-1 Fan abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0043-1	Critical	Equipment alarm

Impact on the System

The module is derated and the charger is shut down, which may cause module overtemperature. If all of the three fans are damaged, the module will shut down.

Possible Causes

- The fans for the power module are abnormal.
- The fan monitoring cable for the power module is abnormal.

Procedure

Step 1 Replace the faulty power module.

----End

1.49 0044-1 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-1	Critical	Processing error alarm

Impact on the System

The alarm has no impact on module startup.

Possible Causes

DSP or CPLD program loading fails.

Procedure

Step 1 Reload the program.

Step 2 If the alarm persists after several reloads, the DSP or CPLD may be faulty. Replace the power module.

----End

1.50 0044-3 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-3	Critical	Processing error alarm

Impact on the System

The alarm has no impact on module startup.

Possible Causes

The DSP or CPLD program does not match.

Procedure

Step 1 Reload the program.

----End

1.51 0044-21 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-21	Critical	Processing error alarm

Impact on the System

The alarm has no impact on module startup.

Possible Causes

DSP or CPLD program loading fails.

Procedure

Step 1 Reload the program.

----End

1.52 0045-1 Charger Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0045-1	Critical	Equipment alarm

Impact on the System

The module charger stops working.

Possible Causes

The charger SCR is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.53 0045-2 Charger Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0045-2	Critical	Equipment alarm

Impact on the System

The module charger stops working.

Possible Causes

- The charger SCR is faulty.
- An error occurs in charger voltage and battery voltage calibration.

Procedure

Step 1 Replace the power unit or module.

Step 2 Calibrate the charge voltage and battery voltage again.

----End

1.54 0045-3 Charger Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0045-3	Critical	Equipment alarm

Impact on the System

The module charger stops working.

Possible Causes

The charger hardware is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.55 0045-4 Charger Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0045-4	Critical	Equipment alarm

Impact on the System

The module charger stops working.

Possible Causes

The charger capacitor or self-discharge resistor short-circuits, or the charger diode is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.56 0045-5 Charger Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0045-5	Critical	Equipment alarm

Impact on the System

If the charger short-circuits before operation, it cannot work. If the charger short-circuits during operation, the module stops working.

Possible Causes

The charger MOS field-effect transistor (MOSFET) is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.57 0045-6 Charger Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0045-6	Critical	Equipment alarm

Impact on the System

The module charger stops working.

Possible Causes

- The configured number of batteries is different from the actual number.
- The module is faulty.

Procedure

Step 1 Check that the number of batteries is correctly configured and manually clear the alarm.

Step 2 Replace the power unit or module.

----End

1.58 0045-7 Charger Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0045-7	Critical	Equipment alarm

Impact on the System

The module charger stops working.

Possible Causes

- The configured number of batteries is different from the actual number.
- The module is faulty.

Procedure

Step 1 Check that the number of batteries is correctly configured and manually clear the alarm.

Step 2 Replace the power unit or module.

----End

1.59 0045-8 Charger Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0045-8	Critical	Equipment alarm

Impact on the System

The module charger stops working.

Possible Causes

The module is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.60 0046-1 Discharger abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0046-1	Critical	Equipment alarm

Impact on the System

The module transfers from mains inverter mode to battery mode and cannot transfer back to mains inverter mode.

Possible Causes

The battery SCR short-circuits.

Procedure

Step 1 Replace the power unit or module.

----End

1.61 0046-2 Discharger abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0046-2	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

- When the battery approaches EOD, the output load is heavy.
- The module is faulty.

Procedure

Step 1 Prevent weak batteries from carrying heavy loads.

Step 2 Replace the power unit or module.

----End

1.62 0046-3 Discharger abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0046-3	Critical	Equipment alarm

Impact on the System

The module cannot be cold-started by using the batteries.

Possible Causes

The battery relay is faulty, the relay drive signal is abnormal, or the discharger hardware is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.63 0047-1 Not ready Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0047-1	Critical	Equipment alarm

Impact on the System

The module cannot start.

Possible Causes

The ready switch is OFF.

Procedure

Step 1 Check that the ready switch is ON.

----End

1.64 0060-1 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-1	Critical	Equipment alarm

Impact on the System

- If the module works in inverter mode, it stops supplying power.
- If the module does not work in inverter mode, it cannot transfer to inverter mode.

Possible Causes

The module is faulty.

Procedure

Step 1 If an Inverter abnormal 1 alarm is triggered during self-check, replace the power unit or module.

Step 2 If an Inverter abnormal 1 alarm is triggered in inverter mode, manually clear the alarm or replace the power unit or module.

----End

1.65 0060-2 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-2	Critical	Equipment alarm

Impact on the System

- Relay short circuit before power-on: If the system provides output before the module bus voltage rises, the module will break down, and the software does not raise an alarm as it is too late to detect a relay short circuit.
- Relay short circuit during operation: The software raises a relay short circuit alarm. If the module does not work in inverter mode, it cannot transfer to inverter mode.

Possible Causes

The relay short-circuits.

Procedure

Step 1 Replace the power unit or module.

----End

1.66 0060-3 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-3	Critical	Equipment alarm

Impact on the System

- If the module works in inverter mode, it stops supplying power.
- If the module does not work in inverter mode, it cannot transfer to inverter mode.

Possible Causes

The relay hardware is damaged.

Procedure

Step 1 Manually clear the alarm or replace the power unit or module.

----End

1.67 0060-4 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-4	Critical	Equipment alarm

Impact on the System

- If the module works in inverter mode, it stops supplying power.
- If the module does not work in inverter mode, it cannot transfer to inverter mode.

Possible Causes

- A load short circuit occurs.
- A short circuit occurs inside the module. This fault seldom occurs.

Procedure

Step 1 Check load cable connections.

Step 2 If load cable connections are normal, replace the power unit or module.

----End

1.68 0060-5 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-5	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

- The mains is abnormal.
- The power module is faulty.

Procedure

Step 1 After the mains recovers, restart the module.

Step 2 If the alarm persists, the power module hardware may be faulty. Replace the power module.

----End

1.69 0060-6 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-6	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

The output fuse is blown.

Procedure

Step 1 Replace the power unit or module.

----End

1.70 0060-7 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-7	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

- The inverter is overheated.
- The fan or air channel is abnormal.
- The ambient temperature exceeds the upper threshold.

Procedure

- Step 1** Check whether the fan and air channel are normal. If so, clear the fault. The power module will start automatically 5 minutes later.
- Step 2** Check whether the ambient temperature is greater than 40°C. If so, improve ventilation and heat dissipation.
- End

1.71 0060-8 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-8	Critical	Communications alarm

Impact on the System

- The module shuts down.
- An alarm is displayed for at least 10s.

Possible Causes

- The DSP is faulty.
- The CPLD is faulty.

Procedure

- Step 1** Replace the power unit or module.
- End

1.72 0060-10 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-10	Critical	Equipment alarm

Impact on the System

The inverter shuts down.

Possible Causes

- The mains is abnormal.
- The bus capacitor is faulty.

Procedure

Step 1 After the mains recovers, clear the alarm. The module restarts.

Step 2 Replace the power unit or module.

----End

1.73 0060-11 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-11	Critical	Equipment alarm

Impact on the System

The inverter shuts down first, and then the inverter sends a shutdown notification to the rectifier.

Possible Causes

The module is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.74 0061-1 Inverter Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0061-1	Minor	Equipment alarm

Impact on the System

- If a module current imbalance alarm is raised and there is no overload timeout alarm, the alarm does not trigger any action.
- If a module current imbalance alarm is raised and an overload timeout alarm is also raised:
 - a. The module stops supplying power.
 - b. Then the module cannot work in inverter mode.

Possible Causes

- The output current sampling CT is reversely connected or the resistor jumper cap is not connected.
- The power module is damaged.

Procedure

Step 1 Check that the output current sampling CT and resistor jumper cap are correctly connected.

Step 2 If the alarm persists, replace the power module.

----End

1.75 0061-2 Inverter Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0061-2	Minor	Equipment alarm

Impact on the System

Online loading, fault recording, e-label reading, and parameter calibration functions cannot be properly used.

Possible Causes

- The I2C bus is abnormal and does not respond.
- The E2PROM is faulty.

Procedure

Step 1 Manually rectify the fault and check whether the alarm is cleared.

Step 2 If the alarm is raised again, replace the power module.

----End

1.76 0061-3 Inverter Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0061-3	Minor	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

- The inverter connects to a special load such as the half-wave load.
- The module is faulty.

Procedure

Step 1 Check loads.

Step 2 If the loads are normal, replace the power unit or module.

----End

1.77 0061-7 Inverter Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0061-7	Minor	Equipment alarm

Impact on the System

The relay does not close.

Possible Causes

The bypass waveform is abnormal.

Procedure

Step 1 If not all modules have raised alarms, start the UPS and transfer to inverter mode.

Step 2 If all modules have raised alarms, turn off the bypass input circuit breaker. After the relay is closed, turn on the bypass input circuit breaker.

----End

1.78 0061-8 Inverter Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0061-8	Minor	Equipment alarm

Impact on the System

The relay does not close.

Possible Causes

The module has an internal fault.

Procedure

Step 1 Replace the power unit or module.

----End

1.79 0062-1 Intra-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0062-1	Critical	Equipment alarm

Impact on the System

The module raises an alarm, but does not shut down. Another parallel cable may also be faulty.

Possible Causes

- The parallel board connector is loose.
- The parallel cable is broken.
- The parallel board is faulty.

Procedure

Step 1 Check the parallel board connector.

Step 2 Replace the parallel cable.

Step 3 Replace the parallel board.

----End

1.80 0062-2 Intra-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0062-2	Critical	Equipment alarm

Impact on the System

The inverter shuts down.

Possible Causes

- The parallel board connector is loose.
- The parallel cable is broken.
- The parallel board is faulty.
- The module is faulty.

Procedure

Step 1 Check the parallel board connector.

Step 2 Replace the parallel cable.

Step 3 Replace the parallel board.

Step 4 Replace the power unit or module.

----End

1.81 0062-3 Intra-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0062-3	Critical	Equipment alarm

Impact on the System

The inverter shuts down.

Possible Causes

- The parallel board connector is loose.
- The parallel cable is broken.
- The parallel board is faulty.
- The module is faulty.

Procedure

Step 1 Check the parallel board connector.

Step 2 Replace the parallel cable.

Step 3 Replace the parallel board.

Step 4 Replace the power unit or module.

----End

1.82 0062-5 Intra-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0062-5	Critical	Equipment alarm

Impact on the System

- If the module works in inverter mode, the inverter shuts down.
- If the module does not work in inverter mode, it cannot start.

Possible Causes

- All ECMs in the rack are faulty.
- The intra-rack parallel CAN bus is disconnected or short-circuited.
- The parallel board is faulty.

Procedure

Step 1 Replace the ECMs.

Step 2 Replace the intra-rack parallel cable.

Step 3 Replace the parallel board.

----End

1.83 0063-1 Intra-rack par. cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0063-1	Minor	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

- The parallel board connector is loose.
- The parallel cable is broken.
- The parallel board is faulty.
- The module is faulty.

Procedure

Step 1 Check the parallel board connector.

Step 2 Replace the parallel cable.

Step 3 Replace the parallel board.

Step 4 Replace the power unit or module.

----End

1.84 0063-2 Intra-rack par. cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0063-2	Minor	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

- The parallel board connector is loose.
- The parallel cable is broken.
- The parallel board is faulty.
- The module is faulty.

Procedure

Step 1 Check the parallel board connector.

Step 2 Replace the parallel cable.

Step 3 Replace the parallel board.

Step 4 Replace the power unit or module.

----End

1.85 0063-3 Intra-rack par. cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0063-3	Minor	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

- The parallel board connector is loose.
- The parallel cable is broken.
- The parallel board is faulty.
- The module is faulty.

Procedure

Step 1 Check the parallel board connector.

Step 2 Replace the parallel cable.

Step 3 Replace the parallel board.

Step 4 Replace the power unit or module.

----End

1.86 0063-4 Intra-rack par. cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0063-4	Minor	Equipment alarm

Impact on the System

The module switches to another intra-rack parallel CAN bus.

Possible Causes

- All ECMs in the rack are faulty.
- The intra-rack parallel CAN bus is disconnected or short-circuited.
- The parallel board is faulty.

Procedure

Step 1 Replace the ECMs.

Step 2 Replace the intra-rack parallel cable.

Step 3 Replace the parallel board.

----End

1.87 0042-4 Internal fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0042-4	Critical	Equipment alarm

Impact on the System

The inverter shuts down.

Possible Causes

- The auxiliary power supply for the rectifier is faulty.
- The inverter monitoring board is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.88 0044-4 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-4	Critical	Processing error alarm

Impact on the System

The module cannot start.

Possible Causes

Inverter DSP or CPLD program loading fails.

Procedure

Step 1 Reload the program.

Step 2 Replace the power unit or module.

----End

1.89 0044-5 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-5	Critical	Processing error alarm

Impact on the System

The module cannot start.

Possible Causes

DSP program loading fails.

Procedure

- Step 1** Reload the program.
 - Step 2** Replace the power unit or module.
- End

1.90 0044-6 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-6	Critical	Processing error alarm

Impact on the System

The module cannot start.

Possible Causes

DSP program loading fails.

Procedure

- Step 1** Reload the program.
 - Step 2** Replace the power unit or module.
- End

1.91 0044-22 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-22	Critical	Processing error alarm

Impact on the System

The module cannot start.

Possible Causes

DSP program loading fails.

Procedure

- Step 1** Reload the program.
- Step 2** Replace the power unit or module.
- End

1.92 0564-1 Overload timeout Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0564-1	Critical	Environmental alarm

Impact on the System

- Normal module overload timeout (not self-load mode):
 - If the bypass can supply power, the system transfers to bypass mode. If the load power is less than the inverter loading capacity, the system transfers to inverter mode.
 - If the bypass cannot supply power, the system stops supplying power and will not automatically transfer back to inverter mode.
- Overload timeout in self-load mode: The inverter of the module shuts down, the alarm is cleared automatically after 5 minutes, and the module starts automatically.
- Current imbalance and overload timeout or fan fault and overload timeout: The module shuts down and is not allowed to supply power.

Possible Causes

- The rack is overloaded.
- Derating reduces the rated system power.
- The module is damaged.
- The DC component of the power grid in self-load mode is overhigh.

Procedure

- Step 1** Check whether the rack is overloaded.
- Step 2** Check that the module power is not derated due to a fan fault.
- Step 3** If the alarm persists, replace the power unit or module.
- Step 4** Check whether the power grid has a large asymmetric load.
- End

1.93 0565-1 Load impact transfer-to-bypass Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0565-1	Minor	Environmental alarm

Impact on the System

The system automatically transfers back to inverter mode 4s after transferring to bypass mode.

Possible Causes

- A large-power RCD load is instantly connected, or the output load short-circuits.
- The inverter bridge short-circuits.

Procedure

Step 1 Check loads.

Step 2 If the loads are normal, replace the power unit or module.

----End

1.94 0566-1 Output overload Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0566-1	Minor	Environmental alarm

Impact on the System

Long-term overload may cause module overload timeout. Consequently, the system will transfer to bypass mode or stop supplying power.

Possible Causes

- The rack is overloaded.
- Derating reduces the rated system power.
- The module is damaged.

Procedure

- Step 1** Check whether the rack is overloaded.
- Step 2** Check that the module power is not derated due to a fan fault.
- Step 3** If the alarm persists, replace the power unit or module.
- End

1.95 0068-1 Inverter self-check abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0068-1	Critical	Equipment alarm

Impact on the System

The module cannot start.

Possible Causes

The inverter phase A bridge short-circuits.

Procedure

- Step 1** Replace the power unit or module.
- End

1.96 0068-2 Inverter self-check abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0068-2	Critical	Equipment alarm

Impact on the System

The module cannot start.

Possible Causes

The inverter phase B bridge short-circuits.

Procedure

Step 1 Replace the power unit or module.

----End

1.97 0068-3 Inverter self-check abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0068-3	Critical	Equipment alarm

Impact on the System

The module cannot start.

Possible Causes

The inverter phase C bridge short-circuits.

Procedure

Step 1 Replace the power unit or module.

----End

1.98 0068-4 Inverter self-check abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0068-4	Critical	Equipment alarm

Impact on the System

The module cannot start.

Possible Causes

- The ready switch is reset to OFF during self-check.
- More than two inverter switching tubes short-circuit.

Procedure

Step 1 Ensure that the ready switch is ON during self-check.

Step 2 Replace the power unit or module.

----End

1.99 0570-1 BPM unit abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0570-1	Critical	Equipment alarm

Impact on the System

- If the bypass is supplying power, the system keeps working in bypass mode.
- If the ECO bypass is supplying power, the system transfers to inverter mode.

Possible Causes

The bypass thyristor or the bypass SCR drive cable is faulty.

Procedure

Step 1 Remove the bypass unit or module, tap **Clear Faults**, and replace the bypass unit or module.

----End

1.100 0570-2 BPM unit abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0570-2	Critical	Equipment alarm

Impact on the System

- If the system works in inverter mode, no action is involved.
- If the system does not work in inverter mode, it cannot transfer to inverter mode.

Possible Causes

The bypass thyristor or the bypass SCR drive cable is faulty.

Procedure

Step 1 Remove the bypass unit or module, tap **Clear Faults**, and replace the bypass unit or module.

Step 2 If all racks in the parallel system raise the alarm indicating bypass thyristor short circuit, perform the following steps to locate the fault:

1. Check the output status of the parallel system. If the system provides output, perform steps [Step 2.2-Step 2.8](#). If the system does not provide output, go to [Step 2.9](#).
2. Check the bypass input of all racks on the WebUI or MDU. If the bypass input of certain racks is single-phase or dual-phase voltage only and the three-phase voltages of other racks are within the normal range, the bypass SCRs of the racks with single-phase or dual-phase input are short-circuited.
3. If the bypass three-phase inputs of all racks are normal, select one rack and switch on the maintenance bypass of the other racks.
4. Turn off the bypass input switch of the selected rack and set the bypass ready switch of the selected rack to Not ready.
5. Check the bypass input voltage of the selected rack on the WebUI or MDU. If at least one phase of the bypass input voltage remains the same as the output voltage, the bypass SCR of the rack is short-circuited.
6. Turn on the bypass input switch and bypass ready switch of the selected rack, and switch on the maintenance bypass of the rack.
7. Select another rack, turn off the maintenance bypass switch of the selected rack, and ensure that the maintenance bypass switches of other racks are on. Performs steps [Step 2.3-Step 2.5](#) until all racks are checked.
8. Replace the faulty bypass modules, tap **Clear Faults** for each rack, and turn off the maintenance bypass switches of the racks. After ensuring that the bypass input switches of all the racks are turned on and there is no other alarm, tap **Parallel Inv. ON**.
9. If the system does not provide output, power off the racks, switch off output circuit breakers for each rack, and check whether the bypass input or output is short-circuited.

----End

1.101 0570-3 BPM unit abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0570-3	Critical	Equipment alarm

Impact on the System

If a bypass input circuit breaker is equipped, it is automatically switched off.

Possible Causes

The bypass thyristor or the bypass SCR drive cable is faulty.

Procedure

- Step 1** Remove the bypass unit or module, tap **Clear Faults**, and replace the bypass unit or module.
- Step 2** If all racks in the parallel system raise bypass backfeed alarms, perform the following steps to locate the fault:
1. Check the output status of the parallel system. If the system works in inverter mode, turn off the bypass input switch of the selected rack and observe the bypass input voltage. If at least one phase of the bypass input voltage remains the same as the output voltage, the bypass of the rack backfeeds.
 2. If the selected rack is normal, turn on the bypass input switch. Select another rack and check it until all racks are checked.
 3. If the rack does not provide output, power off the racks, switch off output circuit breakers for each rack, and check whether the bypass input or output is short-circuited.

----End

1.102 0570-4 BPM unit abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0570-4	Critical	Equipment alarm

Impact on the System

- If the bypass is set to continue working with overtemperature, the bypass may break down if it continues supplying power.
- If the bypass is set to shut down with overtemperature, the bypass shuts down.

Possible Causes

- The bypass fan is abnormal, or the air channel is blocked.
- The ambient temperature exceeds the upper threshold.
- The load power is greater than the upper threshold.

Procedure

- Step 1** Check the bypass fan and air channel. If the fan is faulty, replace it.
- Step 2** Check that the ambient temperature is within 40°C.
- Step 3** Check that there is no overload.

----End

1.103 0570-5 BPM unit abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0570-5	Critical	Communications alarm

Impact on the System

Only an alarm is raised.

Possible Causes

- The DSP is faulty.
- The CPLD is faulty.

Procedure

Step 1 Replace the bypass unit or module.

----End

1.104 0570-6 BPM unit abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0570-6	Critical	Communications alarm

Impact on the System

- If the bypass is set to continue working with overtemperature, the bypass may break down if it continues supplying power.
- If the bypass is set to shut down with overtemperature, the bypass shuts down.

Possible Causes

- The bypass fan is abnormal.
- The bypass is at heavy load for a long time.

Procedure

Step 1 Check the bypass fan.

Step 2 Reduce the load power.

----End

1.105 0062-6 Intra-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0062-6	Critical	Equipment alarm

Impact on the System

If a single rack does not work in inverter mode, the bypass takes over the SCR drive.

Possible Causes

- All ECMs in the rack are faulty.
- The intra-rack parallel CAN bus is disconnected or short-circuited.
- The parallel board is faulty.

Procedure

Step 1 Replace the ECMs.

Step 2 Replace the intra-rack parallel cable.

Step 3 Replace the parallel board.

----End

1.106 0063-5 Intra-rack par. cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0063-5	Minor	Equipment alarm

Impact on the System

The bypass works on another intra-rack parallel CAN bus.

Possible Causes

- All ECMs in the rack are faulty.
- The intra-rack parallel CAN bus is disconnected or short-circuited.

- The parallel board is faulty.

Procedure

Step 1 Replace the ECMs.

Step 2 Replace the intra-rack parallel cable.

Step 3 Replace the parallel board.

----End

1.107 0042-5 Internal fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0042-5	Critical	Equipment alarm

Impact on the System

The bypass does not supply power.

Possible Causes

- The auxiliary power supply is faulty.
- The bypass board is faulty.

Procedure

Step 1 Replace the bypass unit or module.

----End

1.108 0042-6 Internal fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0042-6	Critical	Equipment alarm

Impact on the System

- The bypass does not supply power.
- The auxiliary power supply for the bypass does not supply power to the ECM.

Possible Causes

- The auxiliary power supply is faulty.
- The bypass board is faulty.

Procedure

Step 1 Replace the bypass unit or module.

----End

1.109 0043-2 Fan abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0043-2	Critical	Equipment alarm

Impact on the System

Bypass overtemperature may occur.

Possible Causes

The fan is faulty.

Procedure

Step 1 Check the fan, or replace the bypass unit or module.

----End

1.110 0044-7 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-7	Critical	Processing error alarm

Impact on the System

The module cannot start.

Possible Causes

Inverter DSP or CPLD program loading fails.

Procedure

Step 1 Reload the program.

Step 2 Replace the power unit or module.

----End

1.111 0044-8 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-8	Critical	Processing error alarm

Impact on the System

The bypass does not supply power.

Possible Causes

Inverter DSP or CPLD program loading fails.

Procedure

Step 1 Reload the program.

Step 2 Replace the bypass unit or module.

----End

1.112 0044-9 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-9	Critical	Processing error alarm

Impact on the System

The bypass does not supply power.

Possible Causes

Inverter DSP or CPLD program loading fails.

Procedure

Step 1 Reload the program.

Step 2 Replace the bypass unit or module.

----End

1.113 0044-23 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-23	Critical	Processing error alarm

Impact on the System

The bypass does not supply power.

Possible Causes

Inverter DSP or CPLD program loading fails.

Procedure

Step 1 Reload the program.

Step 2 Replace the bypass unit or module.

----End

1.114 0047-2 Not ready Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0047-2	Critical	Equipment alarm

Impact on the System

The bypass does not supply power.

Possible Causes

The ready switch is OFF.

Procedure

Step 1 Check that the ready switch is ON.

----End

1.115 0080-1 ECM1 abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0080-1	Minor	Equipment alarm

Impact on the System

The active/standby switchover function is unavailable.

Possible Causes

ECM 1 is faulty.

Procedure

Step 1 Replace the ECM in the first slot.

----End

1.116 0081-1 ECM abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0081-1	Critical	Communications alarm

Impact on the System

- When the board is standby, the active/standby switchover function is unavailable.
- When the board is active, an active/standby switchover occurs if the standby board is proper, but the power supply is not switched over.

Possible Causes

The DSP or CPLD is faulty.

Procedure

Step 1 Replace the ECM.

----End

1.117 0082-1 ECM Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0082-1	Minor	Equipment alarm

Impact on the System

Online loading, fault recording, e-label reading, and parameter calibration functions cannot be properly used.

Possible Causes

- The I2C bus is abnormal and does not respond.
- The E2PROM is faulty.

Procedure

Step 1 Manually rectify the fault and check whether the alarm is cleared.

Step 2 If the alarm persists, replace the ECM.

----End

1.118 0082-2 ECM Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0082-2	Minor	Equipment alarm

Impact on the System

Data between active and standby SCIs is inconsistent. If a switchover is triggered, the power supply status of the system will change.

Possible Causes

- The active ECM SCI is faulty.
- The standby ECM SCI is faulty.

Procedure

Step 1 Replace the standby ECM. If the fault persists, replace the other ECM.

----End

1.119 0062-7 Intra-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0062-7	Critical	Equipment alarm

Impact on the System

The UPS does not work.

Possible Causes

- The ECM is faulty.
- The intra-rack parallel CAN bus is broken.
- The parallel board is faulty.

Procedure

Step 1 Replace the ECM.

Step 2 Replace the parallel cable.

Step 3 Replace the parallel board.

----End

1.120 0062-10 Intra-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0062-10	Critical	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

- The parallel board connector is loose.
- The intra-rack parallel cable is broken.
- The parallel board is faulty.

Procedure

Step 1 Check the parallel board connector.

Step 2 Replace the parallel cable.

Step 3 Replace the parallel board.

----End

1.121 0583-1 Inter-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0583-1	Critical	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

- The inter-rack parallel CAN bus is disconnected or short-circuited.
- Only one rack works in a parallel system.
- The ECM is faulty.

Procedure

- Step 1** Check the CAN bus.
 - Step 2** Rectify the disconnection or short-circuit fault.
 - Step 3** Replace the ECM.
- End

1.122 0583-3 Inter-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0583-3	Critical	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

The inter-rack BSC synchronization cable is broken.

Procedure

- Step 1** Replace the inter-rack BSC synchronization cable.
- End

1.123 0583-4 Inter-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0583-4	Critical	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

The inter-rack industrial-frequency synchronization cable is broken.

Procedure

Step 1 Replace the parallel cable.

----End

1.124 0583-5 Inter-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0583-5	Critical	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

The inter-rack carrier synchronization cable is broken.

Procedure

Step 1 Replace the parallel cable.

----End

1.125 0583-6 Inter-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0583-6	Critical	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

- The intra-rack INVBYP cable is broken.
- The parallel CAN bus is broken.

Procedure

Step 1 Replace the parallel cable.

----End

1.126 0584-2 Inter-rack par. cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0584-2	Minor	Equipment alarm

Impact on the System

- The active or standby board ECM reports an alarm and does not shut down.
- If the parallel cable is faulty, the standby rack automatically becomes active as it determines that the parallel cable is disconnected. If the parallel cable is reconnected and the UPS works in inverter mode, the system may transfer to bypass mode or stop supplying power.

Possible Causes

The inter-rack parallel cable is faulty.

Procedure

Step 1 Replace the inter-rack parallel cable.

----End

1.127 0584-4 Inter-rack par. cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0584-4	Minor	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

The inter-rack industrial-frequency synchronization cable is broken.

Procedure

Step 1 Replace the inter-rack parallel cable.

----End

1.128 0042-7 Internal fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0042-7	Critical	Equipment alarm

Impact on the System

- When the board is standby, the active/standby switchover function is unavailable.
- When the board is active, an active/standby switchover occurs if the standby board is proper, but the power supply is not switched over.

Possible Causes

- The ECM is faulty.
- The parallel board is faulty.

Procedure

Step 1 Replace the ECM.

Step 2 Replace the parallel board.

----End

1.129 0042-8 Internal fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0042-8	Critical	Equipment alarm

Impact on the System

- When the board is standby, the active/standby switchover function is unavailable.
- When the board is active, an active/standby switchover occurs if the standby board is proper, but the power supply is not switched over.

Possible Causes

The ECM is faulty.

Procedure

Step 1 Replace the ECM.

----End

1.130 0044-10 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-10	Critical	Processing error alarm

Impact on the System

The ECM does not work.

Possible Causes

DSP or CPLD program loading fails.

Procedure

Step 1 Reload the program.

Step 2 Replace the ECM.

----End

1.131 0044-11 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-11	Critical	Processing error alarm

Impact on the System

The ECM does not work.

Possible Causes

DSP or CPLD program loading fails.

Procedure

Step 1 Reload the program.

Step 2 Replace the ECM.

----End

1.132 0044-12 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-12	Critical	Processing error alarm

Impact on the System

The ECM does not work.

Possible Causes

DSP or CPLD program loading fails.

Procedure

Step 1 Reload the program.

Step 2 Replace the ECM.

----End

1.133 0044-24 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0044-24	Critical	Processing error alarm

Impact on the System

The ECM does not work.

Possible Causes

DSP or CPLD program loading fails.

Procedure

Step 1 Reload the program.

Step 2 Replace the ECM.

----End

1.134 0085-1 EPO Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0085-1	Critical	Equipment alarm

Impact on the System

The rack shuts down.

Possible Causes

The EPO button is pressed.

Procedure

Step 1 Check the EPO button. If it is pressed by mistake, restore it and then tap **Clear Faults** on the MDU.

----End

1.135 0086-1 Max. number of BPM transfers Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0086-1	Minor	Environmental alarm

Impact on the System

The system keeps working in bypass mode and cannot transfer to inverter mode before the alarm is cleared, but you can manually start the UPS.

Possible Causes

The system frequently transfers to bypass mode due to overload timeout or load impact.

Procedure

Step 1 Check loads.

----End

1.136 0087-1 System transfer-to-bypass Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0087-1	Warning	Equipment alarm

Impact on the System

The system transfers to bypass mode.

Possible Causes

The neighboring UPS is abnormal and transfers to bypass mode.

Procedure

Step 1 Check the reason why the neighboring UPS transfers to bypass mode.

----End

1.137 0088-1 Rack address conflict Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0088-1	Critical	Processing error alarm

Impact on the System

The rack whose address is in conflict cannot be started.

Possible Causes

The configured rack address conflicts with another one.

Procedure

Step 1 Check the configured rack address.

----End

1.138 0089-1 Rack output overload Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0089-1	Minor	Environmental alarm

Impact on the System

- The alarm does not trigger any action.
- Long-time overload will cause rack overtemperature.

Possible Causes

- The rack is overloaded.
- The rack capacity setting is not appropriate.

Procedure

Step 1 Check the load power.

Step 2 Check whether the rack capacity is correctly set.

----End

1.139 0090-1 Dry contact board fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0090-1	Critical	Equipment alarm

Impact on the System

- Other dry contact signals are no longer received, and the signal status of each dry contact remains the same as the status before the fault occurs.
- The dry contact power fault is masked.

Possible Causes

The dry contact board is faulty.

Procedure

Step 1 Replace the dry contact board MUE05A.

----End

1.140 0090-2 Dry contact board fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0090-2	Critical	Equipment alarm

Impact on the System

- Other dry contact signals are no longer received, and the signal status of each dry contact remains the same as the status before the fault occurs.
- The dry contact power fault is masked.

Possible Causes

The dry contact board is faulty.

Procedure

Step 1 Replace the dry contact board MUE06A.

----End

1.141 0091-1 Dry contact board 12 V undervoltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0091-1	Critical	Equipment alarm

Impact on the System

If the 12 V bus is faulty, other dry contacts are in default status.

Possible Causes

The dry contact board is faulty.

Procedure

Step 1 Replace the dry contact board MUE05A.

----End

1.142 0091-2 Dry contact board 12 V undervoltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0091-2	Critical	Equipment alarm

Impact on the System

If the 12 V bus is faulty, other dry contacts are in default status.

Possible Causes

The dry contact board is faulty.

Procedure

Step 1 Replace the dry contact board MUE06A.

----End

1.143 0092-1 BCB fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0092-1	Minor	Equipment alarm

Impact on the System

The BCB cannot trip.

Possible Causes

- The BCB box is faulty.
- The dry contact board is faulty.

Procedure

Step 1 Check whether the BCB box runs properly.

Step 2 Replace the dry contact board MUE05A.

----End

1.144 0093-1 Bypass overcurrent Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0093-1	Critical	Equipment alarm

Impact on the System

- The alarm does not trigger any action.
- Long-time overcurrent will cause bypass module overtemperature.

Possible Causes

The bypass is overloaded.

Procedure

Step 1 Check the load power.

----End

1.145 0594-1 Insufficient redundant racks Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0594-1	Minor	Environmental alarm

Impact on the System

- Only an alarm is raised.
- If the alarm is raised, it means that the system cannot meet the user's redundant rack setting.

Possible Causes

- The load is excessive.
- The configured number of redundant racks is incorrect.

Procedure

Step 1 Reduce the load power.

Step 2 Decrease the configured number of redundant racks.

----End

1.146 0095-1 Insuffi. redundancy Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0095-1	Minor	Equipment alarm

Impact on the System

- Only an alarm is raised.
- If the alarm is raised, it means that the rack cannot meet the user's redundant module setting.

Possible Causes

- The load is excessive.
- The configured number of redundant modules is incorrect.

Procedure

- Step 1** Reduce the load power.
- Step 2** Decrease the configured number of redundant modules.
- End

1.147 0096-1 ECO volt. Abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0096-1	Minor	Environmental alarm

Impact on the System

- If the ECO bypass is supplying power, the system transfers to inverter mode.
- If the power is not supplied by the ECO bypass, the system cannot transfer to ECO bypass mode.

Possible Causes

- The ECO bypass voltage or frequency is out of the preset range.
- The ECO bypass voltage or frequency range is incorrectly set, the bypass input phase sequence is reverse, or the neutral wire is disconnected.

Procedure

- Step 1** Check the bypass input voltage and frequency.
- Step 2** Check that the rated voltage, rated frequency, ECO bypass voltage range, and frequency range are correctly set.
- Step 3** Check that the ECO bypass cables and circuit breakers are correctly connected.
- End

1.148 0097-1 ECM2 abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0097-1	Minor	Equipment alarm

Impact on the System

The active/standby switchover function is unavailable.

Possible Causes

ECM 2 is faulty.

Procedure

Step 1 Replace the ECM in the second slot.

----End

1.149 0098-1 Bypass current not shared Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0098-1	Minor	Equipment alarm

Impact on the System

- If the bypass current is imbalanced due to non-fault causes, only an alarm is raised.
- If the bypass current is imbalanced due to faults:
 - a. If the power is not supplied by the ECO bypass, the system cannot transfer to ECO bypass mode.
 - b. If the ECO bypass is supplying power, the system transfers to inverter mode.

Possible Causes

- The output and input circuit breakers are OFF.
- The length of the bypass input or output cables is incorrect.
- The bypass SCR open-circuits.

Procedure

Step 1 Check the output circuit breaker and bypass input circuit breaker on each rack.

Step 2 Check that bypass input and output cables on each rack meet the length requirements.

Step 3 Check whether the bypass SCR open-circuits.

----End

1.150 0150-1 Inverter asynchronous Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0150-1	Minor	Equipment alarm

Impact on the System

- Only an alarm is raised in normal mode.
- The rack shuts down in self-load mode.

Possible Causes

- The bypass frequency changes fast.
- The slew rate is incorrectly set.

Procedure

Step 1 Check the bypass input.

Step 2 Check the slew rate setting.

----End

1.151 0047-3 Not ready Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0047-3	Critical	Equipment alarm

Impact on the System

The ECM does not work.

Possible Causes

For models except UPS5000-A-(30 kVA-120 kVA):

- The ECM ejector lever is not fastened.
- The micro-switch is faulty.

For UPS5000-A-(30 kVA-120 kVA) models:

- The bypass ready switch is OFF.

- The bypass ready switch is faulty.

Procedure

Step 1 For models except UPS5000-A-(30 kVA-120 kVA):

1. Fasten the ECM ejector lever.
2. Replace the ECM.

Step 2 For UPS5000-A-(30 kVA-120 kVA) models:

1. Turn on the ready switch.
2. Replace the bypass unit or module.

----End

1.152 0100-1 System BPM unit abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0100-1	Minor	Equipment alarm

Impact on the System

- If the rack works in inverter mode, it transfers to bypass mode.
- If the rack does not work in inverter mode, it cannot transfer to inverter mode.

Possible Causes

The neighbor bypass thyristor is faulty.

Procedure

Step 1 Check the neighbor bypass module and replace it.

----End

1.153 0101-1 BSC signal abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0101-1	Minor	Environmental alarm

Impact on the System

Power supply cannot be switched from the system to another one.

Possible Causes

- The dual bus connector is loose.
- Parameters are set incorrectly.

Procedure

Step 1 Check the dual bus connector.

Step 2 Check the parameter settings.

Step 3 Check whether the master BSC system is not supplying power.

----End

1.154 0102-1 Maint. breaker misoperation Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0102-1	Critical	Processing error alarm

Impact on the System

- If the bypass can supply power, the system transfers to bypass mode.
- If the bypass cannot supply power, the system stops supplying power.
- The system cannot work in inverter mode when the maintenance bypass switch is still ON.

Possible Causes

The user operation is incorrect.

Procedure

Step 1 Shut down the inverter and then turn on the maintenance bypass switch.

Step 2 After maintenance, turn off the maintenance bypass switch and then start the inverter.

----End

1.155 0103-1 Input surge arrester Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0103-1	Minor	Equipment alarm

Impact on the System

The system may be powered off by the next lightning strike.

Possible Causes

The input AC SPD is damaged by a lightning strike.

Procedure

Step 1 Replace the input AC SPD.

----End

1.156 0105-1 Communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0105-1	Minor	Equipment alarm

Impact on the System

The module cannot receive commands from the MDU.

Possible Causes

The module is not securely connected.

Procedure

Step 1 Check whether the module is properly installed, whether the intra-rack parallel board is loose, and whether the monitoring communications cable is loose.

----End

1.157 0105-2 Communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0105-2	Minor	Equipment alarm

Impact on the System

The module cannot receive commands from the MDU.

Possible Causes

The module is not securely connected.

Procedure

Step 1 Check whether the module is properly installed, whether the intra-rack parallel board is loose, and whether the monitoring communications cable is loose.

----End

1.158 0105-3 Communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0105-3	Minor	Equipment alarm

Impact on the System

The module cannot receive commands from the MDU.

Possible Causes

The module is not securely connected.

Procedure

Step 1 Check whether the module is properly installed, whether the intra-rack parallel board is loose, and whether the monitoring communications cable is loose.

----End

1.159 0105-4 Communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0105-4	Minor	Equipment alarm

Impact on the System

The module cannot receive commands from the MDU.

Possible Causes

The module is not securely connected.

Procedure

- Step 1** Check whether the module is properly installed, whether the intra-rack parallel board is loose, and whether the monitoring communications cable is loose.

----End

1.160 0105-6 Communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0105-6	Minor	Equipment alarm

Impact on the System

The LCD does not refresh data.

Possible Causes

The module is not securely connected.

Procedure

- Step 1** Check that the module is properly installed and that the cable connecting the MDU and the LCD is secured.

----End

1.161 0106-1 Configuration failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0106-1	Critical	Equipment alarm

Impact on the System

The corresponding node does not work.

Possible Causes

The parameter settings are out of range.

Procedure

Step 1 Check that the system software version is matched.

----End

1.162 0106-2 Configuration failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0106-2	Critical	Equipment alarm

Impact on the System

The corresponding node does not work.

Possible Causes

The parameter settings are out of range.

Procedure

Step 1 Check that the system software version is matched.

----End

1.163 0106-3 Configuration failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0106-3	Critical	Equipment alarm

Impact on the System

The corresponding node does not work.

Possible Causes

The parameter settings are out of range.

Procedure

Step 1 Check that the system software version is matched.

----End

1.164 0106-4 Configuration failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0106-4	Critical	Equipment alarm

Impact on the System

The corresponding node does not work.

Possible Causes

The parameter settings are out of range.

Procedure

Step 1 Check that the system software version is matched.

----End

1.165 0111-1 Rack communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0111-1	Critical	Equipment alarm

Impact on the System

Parameters cannot be synchronized between racks.

Possible Causes

Rack 1 has abnormal parallel CAN or exits the parallel system.

Procedure

Step 1 Check the rack 1 parallel cable connection.

----End

1.166 0111-2 Rack communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0111-2	Critical	Equipment alarm

Impact on the System

Parameters cannot be synchronized between racks.

Possible Causes

Rack 2 has abnormal parallel CAN or exits the parallel system.

Procedure

Step 1 Check the rack 2 parallel cable connection.

----End

1.167 0111-3 Rack communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0111-3	Critical	Equipment alarm

Impact on the System

Parameters cannot be synchronized between racks.

Possible Causes

Rack 3 has abnormal parallel CAN or exits the parallel system.

Procedure

Step 1 Check the rack 3 parallel cable connection.

----End

1.168 0111-4 Rack communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0111-4	Critical	Equipment alarm

Impact on the System

Parameters cannot be synchronized between racks.

Possible Causes

Rack 4 has abnormal parallel CAN or exits the parallel system.

Procedure

Step 1 Check the rack 4 parallel cable connection.

----End

1.169 0111-5 Rack communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0111-5	Critical	Equipment alarm

Impact on the System

Parameters cannot be synchronized between racks.

Possible Causes

Rack 5 has abnormal parallel CAN or exits the parallel system.

Procedure

Step 1 Check the rack 5 parallel cable connection.

----End

1.170 0111-6 Rack communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0111-6	Critical	Equipment alarm

Impact on the System

Parameters cannot be synchronized between racks.

Possible Causes

Rack 6 has abnormal parallel CAN or exits the parallel system.

Procedure

Step 1 Check the rack 6 parallel cable connection.

----End

1.171 0112-1 Networking mode conflict Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0112-1	Critical	Equipment alarm

Impact on the System

The parallel connection function of the MDU is unavailable.

Possible Causes

The rack 1 networking mode is **One to multiple**, and there are other **One to multiple** racks in the parallel system.

Procedure

Step 1 Set the networking mode of a maximum of one rack to **One to multiple**.

----End

1.172 0112-2 Networking mode conflict Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0112-2	Critical	Equipment alarm

Impact on the System

The parallel connection function of the MDU is unavailable.

Possible Causes

The rack 2 networking mode is **One to multiple**, and there are other **One to multiple** racks in the parallel system.

Procedure

Step 1 Set the networking mode of a maximum of one rack to **One to multiple**.

----End

1.173 0112-3 Networking mode conflict Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0112-3	Critical	Equipment alarm

Impact on the System

The parallel connection function of the MDU is unavailable.

Possible Causes

The rack 3 networking mode is **One to multiple**, and there are other **One to multiple** racks in the parallel system.

Procedure

Step 1 Set the networking mode of a maximum of one rack to **One to multiple**.

----End

1.174 0112-4 Networking mode conflict Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0112-4	Critical	Equipment alarm

Impact on the System

The parallel connection function of the MDU is unavailable.

Possible Causes

The rack 4 networking mode is **One to multiple**, and there are other **One to multiple** racks in the parallel system.

Procedure

Step 1 Set the networking mode of a maximum of one rack to **One to multiple**.

----End

1.175 0112-5 Networking mode conflict Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0112-5	Critical	Equipment alarm

Impact on the System

The parallel connection function of the MDU is unavailable.

Possible Causes

The rack 5 networking mode is **One to multiple**, and there are other **One to multiple** racks in the parallel system.

Procedure

Step 1 Set the networking mode of a maximum of one rack to **One to multiple**.

----End

1.176 0112-6 Networking mode conflict Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0112-6	Critical	Equipment alarm

Impact on the System

The parallel connection function of the MDU is unavailable.

Possible Causes

The rack 6 networking mode is **One to multiple**, and there are other **One to multiple** racks in the parallel system.

Procedure

Step 1 Set the networking mode of a maximum of one rack to **One to multiple**.

----End

1.177 0113-1 Rack quantity mismatch Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0113-1	Minor	Equipment alarm

Impact on the System

N/A

Possible Causes

The configured number of parallel racks does not match the actual number.

Procedure

Step 1 Set the number of parallel racks to the actual number.

----End

1.178 0114-1 Module quantity mismatch Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0114-1	Minor	Equipment alarm

Impact on the System

N/A

Possible Causes

Modules are not powered on or cannot communicate with the MDU.

Procedure

Step 1 Check that modules are powered on and communicating properly with the MDU.

----End

1.179 0114-2 Module quantity mismatch Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0114-2	Minor	Equipment alarm

Impact on the System

N/A

Possible Causes

The configured UPS capacity does not match the configured number of requisite modules.

Procedure

Step 1 Check the parameter settings.

----End

1.180 0124-1 Power Cell Num Dismatch Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0124-1	Minor	Equipment alarm

Impact on the System

N/A

Possible Causes

Power units are not powered on or do not set up normal communication with the MDU.

Procedure

Step 1 Check that the power units have been powered on and communicate properly.

----End

1.181 0119-1 Upgrading Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0119-1	Warning	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

Software loading is in progress.

Procedure

Step 1 Wait until the loading is complete.

----End

1.182 0119-2 Upgrading Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0119-2	Warning	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

Software loading is in progress.

Procedure

Step 1 Wait until the loading is complete.

----End

1.183 0119-3 Upgrading Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0119-3	Warning	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

Software loading is in progress.

Procedure

Step 1 Wait until the loading is complete.

----End

1.184 0119-4 Upgrading Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0119-4	Warning	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

Software loading is in progress.

Procedure

Step 1 Wait until the loading is complete.

----End

1.185 0121-1 Upgrade failed Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0121-1	Critical	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The module is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.186 0121-2 Upgrade failed Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0121-2	Critical	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The bypass is faulty.

Procedure

Step 1 Replace the bypass unit or module.

----End

1.187 0121-3 Upgrade failed Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0121-3	Critical	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The ECM is faulty.

Procedure

Step 1 Replace the ECM.

----End

1.188 0121-4 Upgrade failed Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0121-4	Critical	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The module is faulty.

Procedure

Step 1 Replace the display module.

----End

1.189 0122-1 Program abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0122-1	Critical	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The power unit or module is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.190 0122-2 Program abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0122-2	Critical	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The power unit or module is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.191 0122-3 Program abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0122-3	Critical	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The bypass unit or module is faulty.

Procedure

Step 1 Replace the bypass unit or module.

----End

1.192 0122-4 Program abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0122-4	Critical	Equipment alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The ECM is faulty.

Procedure

Step 1 Replace the ECM.

----End

1.193 0123-1 Node address conflict Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0123-1	Critical	Communications alarm

Impact on the System

Data of the corresponding module is displayed in disorder on the MDU.

Possible Causes

- The parallel board is faulty, which results in an incorrect module monitoring address.
- A module is inserted into another slot after loading fails.

Procedure

Step 1 Replace the parallel board.

Step 2 If loading fails, do not insert the module into another slot.

----End

1.194 0123-2 Node address conflict Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0123-2	Critical	Communications alarm

Impact on the System

Data of the corresponding module is displayed in disorder on the MDU.

Possible Causes

- The parallel board is faulty, which results in an incorrect module monitoring address.
- A module is inserted into another slot after loading fails.

Procedure

Step 1 Replace the parallel board.

Step 2 If loading fails, do not insert the module into another slot.

----End

1.195 0123-3 Node address conflict Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0123-3	Critical	Communications alarm

Impact on the System

Data of the corresponding module is displayed in disorder on the MDU.

Possible Causes

The parallel board is faulty, which results in an incorrect module monitoring address.

Procedure

Step 1 Replace the parallel board.

----End

1.196 0123-4 Node address conflict Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0123-4	Critical	Communications alarm

Impact on the System

Data of the corresponding module is displayed in disorder on the MDU.

Possible Causes

- The parallel board is faulty, which results in an incorrect module monitoring address.
- A module is inserted into another slot after loading fails.

Procedure

Step 1 Replace the parallel board.

Step 2 If loading fails, do not insert the module into another slot.

----End

1.197 0125-1 Inconsistent parallel param. Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0125-1	Critical	Equipment alarm

Impact on the System

The system cannot be started.

Possible Causes

Parallel parameters to be synchronized are inconsistent.

Procedure

Step 1 Press the parameter synchronization button on the LCD to synchronize parameters.

----End

1.198 0043-3 Fan abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0043-3	Critical	Communications alarm

Impact on the System

No action is involved. The top outlet fan is abnormal, and the rack temperature increases.

Possible Causes

- The fan is faulty.
- The fan monitoring cable is faulty.

Procedure

Step 1 Replace the fan.

Step 2 Check the fan monitoring cable.

----End

1.199 0043-4 Fan abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0043-4	Critical	Communications alarm

Impact on the System

No action is involved. The top outlet fan is abnormal, and the rack temperature increases.

Possible Causes

- The fan is faulty.
- The fan monitoring cable is faulty.

Procedure

Step 1 Replace the fan.

Step 2 Check the fan monitoring cable.

----End

1.200 0044-13 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-13	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The rectifier DSP version of the module does not match that in the running package.

Procedure

Step 1 Reload software.

----End

1.201 0044-14 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-14	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The rectifier CPLD version of the module does not match that in the running package.

Procedure

Step 1 Reload software.

----End

1.202 0044-15 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-15	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The inverter DSP version of the module does not match that in the running package.

Procedure

Step 1 Reload software.

----End

1.203 0044-16 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-16	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The inverter CPLD version of the module does not match that in the running package.

Procedure

Step 1 Reload software.

----End

1.204 0044-17 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-17	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The bypass DSP version does not match that in the running package.

Procedure

Step 1 Reload software.

----End

1.205 0044-18 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-18	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The bypass CPLD version does not match that in the running package.

Procedure

Step 1 Reload software.

----End

1.206 0044-19 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-19	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The ECM DSP version does not match that in the running package.

Procedure

Step 1 Reload software.

----End

1.207 0044-20 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-20	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The ECM CPLD version does not match that in the running package.

Procedure

Step 1 Reload software.

----End

1.208 0044-25 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-25	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The rectifier DSP hardware version of the module does not match that in the running package.

Procedure

Step 1 Upgrade the system software package.

----End

1.209 0044-26 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-26	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The rectifier CPLD hardware version of the module does not match that in the running package.

Procedure

Step 1 Upgrade the system software package.

----End

1.210 0044-27 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-27	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The inverter DSP hardware version of the module does not match that in the running package.

Procedure

Step 1 Upgrade the system software package.

----End

1.211 0044-28 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-28	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The inverter CPLD hardware version of the module does not match that in the running package.

Procedure

Step 1 Upgrade the system software package.

----End

1.212 0044-29 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-29	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The bypass DSP hardware version does not match that in the running package.

Procedure

Step 1 Upgrade the system software package.

----End

1.213 0044-30 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-30	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The bypass CPLD hardware version does not match that in the running package.

Procedure

Step 1 Upgrade the system software package.

----End

1.214 0044-31 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-31	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The ECM DSP hardware version does not match that in the running package.

Procedure

Step 1 Upgrade the system software package.

----End

1.215 0044-32 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-32	Critical	Processing error alarm

Impact on the System

The corresponding module does not work.

Possible Causes

The ECM CPLD hardware version does not match that in the running package.

Procedure

Step 1 Upgrade the system software package.

----End

1.216 0044-41 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-41	Critical	Processing error alarm

Impact on the System

Parallel connection is unavailable.

Possible Causes

The parallel system has two or more running package versions of the power unit or module.

Procedure

Step 1 Upgrade the power software package.

----End

1.217 0115-1 Single-battery overvoltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0115-1	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

There is a weak battery in the battery string.

Procedure

Step 1 Check whether the battery string deteriorates.

----End

1.218 0115-25 Single-battery overvoltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0115-25	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

There is a weak battery in the battery string.

Procedure

Step 1 Check whether the battery string deteriorates.

----End

1.219 0115-26 Single-battery overvoltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0115-26	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

There is a weak battery in the battery string.

Procedure

Step 1 Check whether the battery string deteriorates.

----End

1.220 0140-1 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-1	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 1 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.221 0140-2 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-2	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 2 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.222 0140-3 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-3	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 3 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.223 0140-4 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-4	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 4 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.224 0140-5 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-5	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 5 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.225 0140-6 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-6	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 6 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.226 0140-7 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-7	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 7 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.227 0140-8 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-8	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 8 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.228 0140-9 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-9	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 9 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.229 0140-10 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-10	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 10 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.230 0140-11 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0140-11	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 11 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.231 0140-12 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-12	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 12 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.232 0140-13 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-13	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 13 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.233 0140-14 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-14	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 14 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.234 0140-15 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-15	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 15 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.235 0140-16 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-16	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 16 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.236 0140-17 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-17	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 17 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.237 0140-18 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-18	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 18 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.238 0140-19 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-19	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 19 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.239 0140-20 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-20	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 20 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.240 0140-21 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-21	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 21 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.241 0140-22 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0140-22	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 22 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.242 0140-23 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-23	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 23 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.243 0140-24 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-24	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery 24 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.244 0140-25 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-25	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during charging that the difference between the battery voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.245 0140-26 Inconsistent charge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0140-26	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

The voltage of more than certain batteries is quite different from the average value during float charging.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.246 0141-1 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-1	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 1 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.247 0141-2 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-2	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 2 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.248 0141-3 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-3	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 3 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.249 0141-4 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-4	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 4 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.250 0141-5 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-5	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 5 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.251 0141-6 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-6	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 6 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.252 0141-7 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0141-7	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 7 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.253 0141-8 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-8	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 8 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.254 0141-9 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-9	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 9 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.255 0141-10 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-10	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 10 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.256 0141-11 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-11	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 11 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.257 0141-12 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-12	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 12 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.258 0141-13 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-13	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 13 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.259 0141-14 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-14	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 14 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.260 0141-15 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-15	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 15 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.261 0141-16 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-16	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 16 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.262 0141-17 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-17	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 17 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.263 0141-18 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0141-18	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 18 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.264 0141-19 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-19	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 19 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.265 0141-20 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-20	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 20 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.266 0141-21 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-21	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 21 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.267 0141-22 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-22	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 22 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.268 0141-23 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-23	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 23 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.269 0141-24 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-24	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery 24 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.270 0141-25 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-25	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during discharging that the difference between the battery voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.271 0141-26 Inconsistent discharge voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0141-26	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

The voltage of more than certain batteries is quite different from the average value during discharging.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.272 0142-1 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-1	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 1 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.273 0142-2 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-2	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 2 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.274 0142-3 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0142-3	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 3 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.275 0142-4 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-4	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 4 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.276 0142-5 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-5	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 5 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.277 0142-6 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-6	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 6 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.278 0142-7 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-7	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 7 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.279 0142-8 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-8	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 8 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.280 0142-9 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-9	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 9 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.281 0142-10 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-10	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 10 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.282 0142-11 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-11	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 11 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.283 0142-12 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-12	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 12 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.284 0142-13 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-13	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 13 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.285 0142-14 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0142-14	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 14 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.286 0142-15 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-15	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 15 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.287 0142-16 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-16	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 16 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.288 0142-17 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-17	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 17 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.289 0142-18 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-18	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 18 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.290 0142-19 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-19	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 19 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.291 0142-20 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-20	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 20 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.292 0142-21 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-21	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 21 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.293 0142-22 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-22	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 22 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.294 0142-23 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-23	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 23 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.295 0142-24 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-24	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery 24 voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.296 0142-25 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0142-25	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

It is detected during hibernation that the difference between the battery voltage and the average voltage is large.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.297 0142-26 Inconsistent hibernation voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0142-26	Minor	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

The voltage of more than certain batteries is quite different from the average value during hibernation.

Procedure

Step 1 Check whether batteries are deteriorating.

Step 2 Check whether the alarm threshold is appropriate.

----End

1.298 0117-1 BMU communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0117-1	Minor	Communications alarm

Impact on the System

BMUs fail to work.

Possible Causes

BMUs are disconnected.

Procedure

Step 1 Check communications cable connection.

----End

1.299 0118-1 BMU quantity mismatch Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0118-1	Minor	Communications alarm

Impact on the System

Certain BMUs fail to work.

Possible Causes

- BMUs are disconnected.
- The configured number of BMUs does not match the actual number.

Procedure

Step 1 Check communications cable connection.

Step 2 Check the configured number of BMUs.

----End

1.300 0126-1 Door Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0126-1	Minor	Environmental alarm

Impact on the System

The UPS cabinet door is open.

Possible Causes

The UPS cabinet door is open.

Procedure

Step 1 Check that the UPS cabinet door is closed.

----End

1.301 0127-1 Water Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0127-1	Critical	Environmental alarm

Impact on the System

Water seeps into the UPS equipment room.

Possible Causes

Water seeps into the UPS equipment room.

Procedure

Step 1 Check the UPS equipment room.

----End

1.302 0128-1 Copper Bar Over Temp Warn Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0128-1	Minor	Equipment alarm

Impact on the System

None.

Possible Causes

N/A

Procedure

Step 1 Check the equipment room ventilation and reduce the load rate.

Step 2 Check cable connections.

----End

1.303 0129-1 Input Transf Over Temp Warn Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0129-1	Minor	Equipment alarm

Impact on the System

None.

Possible Causes

N/A

Procedure

Step 1 Check the equipment room ventilation and reduce the load rate.

Step 2 Check cable connections.

----End

1.304 0130-1 Output Transf Over Temp Warn Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0130-1	Minor	Equipment alarm

Impact on the System

None.

Possible Causes

N/A

Procedure

Step 1 Check the equipment room ventilation and reduce the load rate.

Step 2 Check cable connections.

----End

1.305 0132-1 MUE07A communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0132-1	Minor	Communications alarm

Impact on the System

The dry contact extended card cannot work properly.

Possible Causes

- The dry contact extended card is faulty.
- The dry contact extended card is not properly connected.

Procedure

Step 1 Replace the dry contact extended card.

Step 2 Check the connection to the dry contact extended card.

----End

1.306 0139-1 Dry contact extended card com. fail. Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0139-1	Minor	Communications alarm

Impact on the System

The dry contact extended card cannot work properly.

Possible Causes

- The dry contact extended card is faulty.
- The dry contact extended card is not properly connected.

Procedure

Step 1 Replace the dry contact extended card.

Step 2 Check the connection to the dry contact extended card.

----End

1.307 0131-1 Ambient overtemperature Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0131-1	Minor	Environmental alarm

Impact on the System

The ambient temperature exceeds the upper threshold.

Possible Causes

The UPS equipment room experiences overtemperature.

Procedure

Step 1 Check the ambient temperature in the UPS equipment room.

----End

1.308 0137-1 Ambient sensor comm. failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0137-1	Minor	Communications alarm

Impact on the System

The ambient temperature and humidity cannot be detected.

Possible Causes

The communications cable is incorrectly connected or disconnected. The DIP switch settings are incorrect.

Procedure

Step 1 Check communications cable connections and DIP switch settings.

----End

1.309 0137-2 Ambient sensor comm. failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0137-2	Minor	Communications alarm

Impact on the System

The ambient temperature and humidity cannot be detected.

Possible Causes

The communications cable is incorrectly connected or disconnected. The DIP switch settings are incorrect.

Procedure

Step 1 Check communications cable connections and DIP switch settings.

----End

1.310 0137-3 Ambient sensor comm. failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0137-3	Minor	Communications alarm

Impact on the System

The ambient temperature and humidity cannot be detected.

Possible Causes

The communications cable is incorrectly connected or disconnected. The DIP switch settings are incorrect.

Procedure

Step 1 Check communications cable connections and DIP switch settings.

----End

1.311 0137-4 Ambient sensor comm. failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0137-4	Minor	Communications alarm

Impact on the System

The ambient temperature and humidity cannot be detected.

Possible Causes

The communications cable is incorrectly connected or disconnected. The DIP switch settings are incorrect.

Procedure

Step 1 Check communications cable connections and DIP switch settings.

----End

1.312 0138-1 Ambient sensor quantity mismatch Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0138-1	Minor	Equipment alarm

Impact on the System

Certain ambient temperature and humidity sensors fail to work.

Possible Causes

The communications cable is incorrectly connected or disconnected. The DIP switch settings are incorrect.

Procedure

Step 1 Check communications cable connections and DIP switch settings.

----End

1.313 0156-1 Incorrect system time Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0156-1	Warning	Equipment alarm

Impact on the System

The system time is abnormal.

Possible Causes

- The RTC is damaged.
- The RTC is powered off.

Procedure

Step 1 Replace the monitoring board.

Step 2 Replace the monitoring board battery.

----End

1.314 0148-1 The ATS is faulty. Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0148-1	Minor	Equipment alarm

Impact on the System

Energy will run out and a power failure will occur after long-term DG operation.

Possible Causes

The ATS reports that the D.G. in the UPS system is working and that the mains is normal.

Procedure

Step 1 Check that the ATS connects to the UPS properly.

Step 2 Replace the ATS.

----End

1.315 0157-1 UPS model read fail. Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0157-1	Minor	Equipment alarm

Impact on the System

N/A

Possible Causes

The rack E-label board is faulty.

Procedure

Step 1 Check that the rack E-label board is properly connected.

Step 2 Replace the rack E-label board.

----End

1.316 0060-23 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-23	Critical	Communications alarm

Impact on the System

- The module raises an alarm. If the module has not started, it cannot be started.
- If the module has started, it shuts down.
- Another fault may also occur.

Possible Causes

- The communications port connection between the rectifier and the inverter is loose.
- The communications cable between the rectifier and the inverter is disconnected.
- The module is faulty.

Procedure

Step 1 Check that the communications port connection between the rectifier and the inverter is secure.

Step 2 Check that the communications cable is properly connected.

Step 3 Replace the communications cable.

Step 4 Replace the power unit or module.

----End

1.317 0048-1 BCB open abnormally Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0048-1	Minor	Equipment alarm

Impact on the System

No action is involved.

Possible Causes

N/A

Procedure

Step 1 Check the BCB and rectify faults.

----End

1.318 0165-1 BPM unit Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0165-1	Minor	Equipment alarm

Impact on the System

Online loading, fault recording, e-label reading, and parameter calibration functions cannot be properly used.

Possible Causes

N/A

Procedure

Step 1 NA

----End

1.319 0061-10 Inverter Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0061-10	Minor	Equipment alarm

Impact on the System

The inverter cannot start automatically.

Possible Causes

The UPS shuts down due to battery EOD, and the mains voltage is less than 176 V.

Procedure

- Step 1** Manually start the UPS.
- Step 2** Check that the mains voltage is above 176 V.
- End

1.320 0169-1 System transfer-to-inverter mode Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0169-1	Warning	Equipment alarm

Impact on the System

The system transfers to inverter mode.

Possible Causes

The neighboring UPS requests transferring to inverter mode when the inverter is available.

Procedure

- Step 1** Check the reason why the neighboring UPS transfers to inverter mode.
- End

1.321 0170-1 No system output Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0170-1	Warning	Equipment alarm

Impact on the System

The system stops supplying power.

Possible Causes

The neighboring UPS transfers to no-output mode.

Procedure

Step 1 Check the reason why the neighboring UPS transfers to no-output mode.

----End

1.322 0122-5 Program abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0122-5	Critical	Equipment alarm

Impact on the System

The battery backup time is affected.

Possible Causes

- The MDU communication is abnormal.
- The MDU program is abnormal.
- The MDU is damaged.

Procedure

Step 1 Check monitoring cable connections.

Step 2 Restart the MDU.

Step 3 Replace the MDU.

----End

1.323 0122-6 Program abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0122-6	Critical	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

- The MDU communication is abnormal.
- The MDU program is abnormal.
- The MDU is damaged.

Procedure

Step 1 Check monitoring cable connections.

Step 2 Restart the MDU.

Step 3 Replace the MDU.

----End

1.324 0122-7 Program abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0122-7	Critical	Equipment alarm

Impact on the System

The battery lifespan is affected.

Possible Causes

- The MDU communication is abnormal.
- The MDU program is abnormal.
- The MDU is damaged.

Procedure

Step 1 Check monitoring cable connections.

Step 2 Restart the MDU.

Step 3 Replace the MDU.

----End

1.325 0044-42 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-42	Critical	Processing error alarm

Impact on the System

Parallel connection is unavailable.

Possible Causes

The parallel system has two or more running package versions of the MDU.

Procedure

Step 1 Upgrade the monitoring software package.

----End

1.326 0171-1 Incon. bypass paral. cable con. Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0171-1	Critical	Environmental alarm

Impact on the System

The bypass in the rack is not allowed to supply power.

Possible Causes

N/A

Procedure

Step 1 Check that the bypass input cables are connected in the correct phase sequence.

----End

1.327 0062-14 Intra-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0062-14	Critical	Equipment alarm

Impact on the System

- In a single UPS system, the bypass takes over the SCR drive.
- In a parallel system, the bypass shuts down.

Possible Causes

N/A

Procedure

Step 1 Check the parallel board connector.

Step 2 Replace the ECM.

Step 3 Replace the parallel cable.

Step 4 Replace the parallel board.

----End

1.328 0063-12 Intra-rack par. cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0063-12	Minor	Equipment alarm

Impact on the System

There is no impact.

Possible Causes

N/A

Procedure

Step 1 Check the parallel board connector.

- Step 2** Replace the ECM.
- Step 3** Replace the parallel cable.
- Step 4** Replace the parallel board.
- End

1.329 0040-26 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-26	Critical	Equipment alarm

Impact on the System

The rectifier shuts down.

Possible Causes

N/A

Procedure

- Step 1** Replace the power unit or module.
- End

1.330 0060-27 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-27	Critical	Equipment alarm

Impact on the System

- If the module works in inverter mode, the module output relay opens and the module stops supplying power.
- If the module does not work in inverter mode, the module output relay opens and the module cannot transfer to inverter mode.

Possible Causes

The module is faulty.

Procedure

Step 1 Replace the power unit or module.

----End

1.331 0060-28 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-28	Critical	Equipment alarm

Impact on the System

- If the module works in inverter mode, the inverter shuts down.
- If the module does not work in inverter mode, it cannot start.

Possible Causes

Industrial-frequency synchronization signals are abnormal.

Procedure

Step 1 Replace the parallel cable or ECM control board.

----End

1.332 0172-1 Bypass overload timeout Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0172-1	Critical	Environmental alarm

Impact on the System

The bypass does not supply power.

Possible Causes

The rack is overloaded.

Procedure

Step 1 Check whether the rack is overloaded.

Step 2 After decreasing the load, manually clear the alarm or start the UPS.

----End

1.333 0173-1 EOD non-startup Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0173-1	Minor	Environmental alarm

Impact on the System

The inverter cannot start automatically.

Possible Causes

N/A

Procedure

Step 1 Manually start the UPS.

Step 2 Recover the mains.

----End

1.334 0174-1 Software package not exist Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0174-1	Critical	Environmental alarm

Impact on the System

- The alarm software package does not exist.

- If a Version incompatible (0044-41) alarm is raised in the parallel system, the UPSs cannot work in parallel.

Possible Causes

N/A

Procedure

Step 1 Upload the software packages of the power unit or module and MDU, and activate all the packages.

----End

1.335 0060-29 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-29	Critical	Equipment alarm

Impact on the System

- If only one module is involved, the system transfers to bypass mode if the bypass is available. If it is unavailable, the system powers off.
- If multiple modules are involved, detection is not performed and the system power supply is not affected.

Possible Causes

The bridge open-circuits.

Procedure

Step 1 Replace the power unit or module.

----End

1.336 0062-15 Intra-rack par. cable abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0062-15	Critical	Equipment alarm

Impact on the System

The bypass unit raises an alarm, but does not shut down. Another parallel cable may also be faulty.

Possible Causes

- The parallel board connector is loose.
- The parallel cable is broken.
- The parallel board is faulty.

Procedure

Step 1 Check the parallel board connector.

Step 2 Replace the parallel cable.

Step 3 Replace the parallel board.

----End

1.337 0175-1 Rack power status conflicts. Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0175-1	Critical	Processing error alarm

Impact on the System

- When the rack output is in inverter mode, the bus is pulled up to retain this mode.
- When the rack output is in bypass mode, the rack stops supplying power.

Possible Causes

There is a processing error inside software.

Procedure

Step 1 Check the power supply status of each rack after the alarm is cleared. If certain racks have no output, you are advised to start them manually.

----End

1.338 0045-12 Charger Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0045-12	Critical	Equipment alarm

Impact on the System

The module charger shuts down.

Possible Causes

N/A

Procedure

Step 1 Replace the faulty module.

----End

1.339 0176-1 DIP switch settings conflict. Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0176-1	Warning	Equipment alarm

Impact on the System

There is no impact

Possible Causes

N/A

Procedure

Step 1 Set the DIP switch to normal status.

----End

1.340 0040-27 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-27	Critical	Equipment alarm

Impact on the System

The module does not supply power.

Possible Causes

The power unit or module hardware is abnormal.

Procedure

Step 1 Reminder: Do not insert the module into the UPS again after removing the module.

Step 2 Replace the power unit or module.

----End

1.341 0177-1 Self-startup times limit Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0177-1	Minor	Equipment alarm

Impact on the System

The module does not automatically transfer back to inverter mode.

Possible Causes

Possible causes for bus overvoltage:

- The load is of the energy feedback type.
- The bypass thyristor short-circuits.
- A single module is faulty.

Possible causes for bus undervoltage:

- The mains input voltage is less than 176 V or heavy loads are connected when batteries are weak.

- A single module is faulty.

Procedure

Step 1 Solution to bus overvoltage:

1. If all power modules or units have raised the alarms, check whether the load is of the energy feedback type. If the load is not of that type, check whether the bypass unit has a thyristor short-circuit. If the fault exists, replace the bypass unit.
2. If a specific power module or unit has raised the alarm, replace it.

Step 2 Solution to bus undervoltage:

1. Check the mains input voltage and battery voltage. If the mains voltage is low or batteries are weak, you are advised to increase loads gradually.
2. If a specific power module or unit has raised the alarm, replace it.

----End

1.342 0178-1 Abnormal node address Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0178-1	Critical	Equipment alarm

Impact on the System

The rectifier and inverter of the power unit or module fail to work.

Possible Causes

N/A

Procedure

Step 1 Check that the parallel cable for the power unit or module is inserted into the correct slot.

Step 2 Replace the power unit or module.

Step 3 Replace the parallel board.

----End

1.343 0063-13 Intra-rack par. cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0063-13	Minor	Equipment alarm

Impact on the System

Only an alarm is raised.

Possible Causes

- The parallel board connector is loose.
- The parallel cable is broken.
- The parallel board is faulty.
- The module is faulty.

Procedure

Step 1 Check the parallel board connector.

Step 2 Replace the parallel cable.

Step 3 Replace the parallel board.

Step 4 Replace the power unit or module.

----End

1.344 0179-1 Abnormal intern. Resistance Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0179-1	Minor	Equipment alarm

Impact on the System

Battery backup is affected.

Possible Causes

- There is a weak battery in the battery string.
- The cables to batteries are not connected properly.

Procedure

Step 1 Check whether the battery string deteriorates.

Step 2 Check battery cable connections.

----End

1.345 0179-2 Abnormal intern. Resistance Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0179-2	Minor	Equipment alarm

Impact on the System

Battery backup is affected.

Possible Causes

- There is a weak battery in the battery string.
- The cables to batteries are not connected properly.

Procedure

Step 1 Check whether the battery string deteriorates.

Step 2 Check battery cable connections.

----End

1.346 0180-1 BIM comm. Failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0180-1	Minor	Communications alarm

Impact on the System

The voltage, internal resistance, and temperature of certain batteries cannot be detected.

Possible Causes

- The wireless network communication fails.
- The BIM is faulty.
- The configured number of BIMs does not match the actual number.

Procedure

Step 1 Reset the BIM.

Step 2 Replace the BIM.

Step 3 Check that the number of BIMs is set correctly.

----End

1.347 0180-2 BIM comm. Failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0180-2	Minor	Communications alarm

Impact on the System

The voltage, internal resistance, and temperature of certain batteries cannot be detected.

Possible Causes

- The wireless network communication fails.
- The BIM is faulty.
- The configured number of BIMs does not match the actual number.

Procedure

Step 1 Reset the BIM.

Step 2 Replace the BIM.

Step 3 Check that the number of BIMs is set correctly.

----End

1.348 0181-1 CIM comm. failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0181-1	Minor	Communications alarm

Impact on the System

The CIM fails to work properly.

Possible Causes

CIM cables are disconnected.

Procedure

Step 1 Check communications cable connection.

----End

1.349 0182-1 CIM qty. mismatch Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0182-1	Minor	Equipment alarm

Impact on the System

Certain CIMs fail to work properly.

Possible Causes

- CIM cables are disconnected.
- The number of connected CIMs is different from the configured number.

Procedure

Step 1 Check communications cable connection.

Step 2 Check the configured number of CIMs.

----End

1.350 0183-1 Inconsistent BIM versions Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0183-1	Minor	Environmental alarm

Impact on the System

The CIM may fail to work properly.

Possible Causes

A BIM has not been upgraded.

Procedure

Step 1 Upgrade the BIM that has not been upgraded to the same version as the other BIMs.

----End

1.351 0184-1 BSC dry contact comm. failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0184-1	Critical	Equipment alarm

Impact on the System

The battery is abnormal.

Possible Causes

- The BSC shared battery dry contact is incorrectly connected.
- The MUE07A is damaged.

Procedure

Step 1 Check dry contact connections.

Step 2 Replace the MUE07A.

----End

1.352 0185-1 Bus capacitor lifespan warning Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0185-1	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 Replace the module.

----End

1.353 0004-3 Mains ph. Reversed Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0004-3	Minor	Environmental alarm

Impact on the System

If batteries are installed, the rectifier transfers to battery mode, which does not affect the system power supply. If no battery is installed, the module shuts down.

Possible Causes

Cable connections are incorrect.

Procedure

Step 1 Check cable connections.

----End

1.354 0186-1 Incon. outp. parall. cable con. Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0186-1	Critical	Environmental alarm

Impact on the System

If the alarm is raised, the UPS is not allowed to supply power.

Possible Causes

N/A

Procedure

Step 1 Check whether the output wiring phase sequence of the UPS is correct and reenter the parallel system phase sequence detection boot mode.

----End

1.355 0188-1 Abnormal BTG power volt. Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0188-1	Minor	Environmental alarm

Impact on the System

If the alarm is raised, the battery grounding fault is not detected. If a battery grounding fault occurs, the BCB cannot trip.

Possible Causes

The output voltage is less than the lower threshold.

Procedure

Step 1 Check whether the system works in bypass mode and the bypass voltage is higher than 176 V.

----End

1.356 0189-1 Battery overcharge Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0189-1	Minor	Equipment alarm

Impact on the System

When the alarm is generated, the charger shuts down.

Possible Causes

The charging voltage of some batteries is too high due to unbalanced batteries.

Procedure

- Step 1** Check whether batteries are deteriorating.
 - Step 2** Check whether the alarm threshold is appropriate.
 - Step 3** Check whether the equalized charging voltage is appropriate.
- End

1.357 0190-1 Battery over-discharge Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0190-1	Critical	Equipment alarm

Impact on the System

- The battery power supply is terminated.
- The BCB (if installed) trips.

Possible Causes

The battery voltage reaches the EOD threshold due to continuous discharge.

Procedure

- Step 1** Check the mains, and charge batteries in a timely manner.
- End

1.358 0148-2 ATS fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0148-2	Minor	Equipment alarm

Impact on the System

The MDU cannot obtain the ATS status.

Possible Causes

ATS communication failure.

Procedure

Step 1 Check the cable connection between the ATS and the system.

Step 2 Check the settings of ATS communications parameters.

Step 3 Replace the ATS.

----End

1.359 0148-3 ATS fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0148-3	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The ATS failed to disconnect from power source 1.

Procedure

Step 1 Check the ATS.

----End

1.360 0148-4 ATS fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0148-4	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The ATS failed to disconnect from power source 2.

Procedure

Step 1 Check the ATS.

----End

1.361 0148-5 ATS fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0148-5	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The ATS failed to disconnect secondary loads.

Procedure

Step 1 Check the ATS.

----End

1.362 0148-6 ATS fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0148-6	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The ATS failed to connect to power source 1.

Procedure

Step 1 Check the ATS.

----End

1.363 0148-7 ATS fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0148-7	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The ATS failed to connect to power source 2.

Procedure

Step 1 Check the ATS.

----End

1.364 0148-8 ATS fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0148-8	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The ATS failed to connect secondary loads.

Procedure

Step 1 Check the ATS.

----End

1.365 0148-9 ATS fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0148-9	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The ATS is in manual mode.

Procedure

Step 1 Check the ATS.

----End

1.366 0148-10 ATS fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0148-10	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

ATS external error.

Procedure

Step 1 Check the ATS.

----End

1.367 0148-11 ATS fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0148-11	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The ATS motor generated an alarm.

Procedure

Step 1 Check the ATS.

----End

1.368 0103-2 Input surge arrester Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0103-2	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The input SPD is faulty.

Procedure

Step 1 Check the input SPD.

----End

1.369 0191-1 Main overfrequency Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0191-1	Minor	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The input power frequency is abnormal.

Procedure

Step 1 Check the input power.

----End

1.370 0192-1 Main underfrequency Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0192-1	Minor	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The input power frequency is abnormal.

Procedure

Step 1 Check the input power.

----End

1.371 0193-1 Mains three-phase current imbalance Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0193-1	Warning	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The load power among three phases is unbalanced.

Procedure

Step 1 Check loads.

----End

1.372 0194-1 Detection board communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0194-1	Critical	Equipment alarm

Impact on the System

The information about power distribution cabinet branches cannot be detected.

Possible Causes

The communications link is abnormal.

Procedure

Step 1 Check the communications link.

----End

1.373 0195-1 Detection board meter chip abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0195-1	Critical	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The detection board meter chip is faulty.

Procedure

Step 1 Check the detection board meter chip.

----End

1.374 0199-1 Mains undercurrent Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0199-1	Warning	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The current of the mains phase A is greater than the upper threshold.

Procedure

Step 1 Check phase A loads.

----End

1.375 0207-1 High mains THDu Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0207-1	Warning	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The mains THDu is high.

Procedure

Step 1 Check the mains input.

----End

1.376 0208-1 High mains THDi Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0208-1	Warning	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The mains THDi is high.

Procedure

Step 1 None.

----End

1.377 0213-1 QF1 Branch temperature abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0213-1	Critical	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The branch is overloaded for a long time.
- Copper bars are not connected reliably.
- A fire occurs.

Procedure

Step 1 Check whether there is a branch fire.

Step 2 Check whether the branch is overloaded.

Step 3 Power off the UPS and check whether the copper bars are reliably connected.

----End

1.378 0213-24 QF24 Branch temperature abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0213-24	Critical	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The branch is overloaded for a long time.
- Copper bars are not connected reliably.
- A fire occurs.

Procedure

- Step 1** Check whether there is a branch fire.
- Step 2** Check whether the branch is overloaded.
- Step 3** Power off the UPS and check whether the copper bars are reliably connected.

----End

1.379 0214-1 Module type not support Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0214-1	Critical	Equipment alarm

Impact on the System

The module type is not supported by the running package.

Possible Causes

N/A

Procedure

Step 1 Replace the power module or unit.

----End

1.380 0215-1 Inverter off in ECO mode Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0215-1	Minor	Processing error alarm

Impact on the System

In ECO mode, when the bypass is supplying power, the inverter on this rack does not have backup power. If the bypass is abnormal, the output power failure may occur.

Possible Causes

N/A

Procedure

Step 1 Manually start a single UPS or a parallel system.

----End

1.381 0216-1 ATS backup power abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0216-1	Critical	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

One ATS power supply is abnormal.

Procedure

Step 1 Check whether the two ATS power supplies are normal.

----End

1.382 0217-1 Backup ECM not switchable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0217-1	Warning	Equipment alarm

Impact on the System

Active switchover is not allowed.

Possible Causes

N/A

Procedure

Step 1 Calibrate the analog sampling for the active and standby ECMs to maximize the analog sampling consistency between them.

Step 2 Clear the fault.

Step 3 After steps 1 and 2 have been performed, if this alarm persists in different power supply status, with different input voltages, or at different load rates, replace the ECM.

----End

1.383 0227-1 Charge overcurrent Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0227-1	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 Change the UPS charge current limit to a value lower than the charge overcurrent threshold configured for a battery string in the CIM.

----End

1.384 0229-1 Web cert. to expire Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0229-1	Warning	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 Upload a new web certificate over the WebUI or set the UPS system time.

----End

1.385 0230-1 Web cert. has expired Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0230-1	Warning	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 Upload a new web certificate.

----End

1.386 0231-1 Web cert. not effect Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0231-1	Warning	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 Upload a new web certificate over the WebUI or set the UPS system time.

----End

1.387 0232-1 Modbus TCP cert. to expire Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0232-1	Warning	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 Upload a new Modbus TCP certificate over the WebUI or set the UPS system time.

----End

1.388 0233-1 Modbus TCP cert. expired Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0233-1	Warning	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 Upload a new Modbus TCP certificate.

----End

1.389 0234-1 Modbus TCP cert. not effect Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0234-1	Warning	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 Upload a new Modbus TCP certificate over the WebUI or set the UPS system time.

----End

1.390 0021-3 Battery EOD Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0021-3	Critical	Quality of service alarm

Impact on the System

The system cannot transfer to battery mode if the mains is abnormal. Consequently, the module may shut down.

Possible Causes

- The UPS works in battery mode for a long time.
- The charger is faulty.

Procedure

Step 1 Check whether the battery voltage is normal.

Step 2 Check whether the output is overloaded.

Step 3 Check whether any battery is damaged. Replace any damaged battery.

Step 4 Check whether any charger has raised an alarm. If a charger is damaged, replace the faulty module.

----End

1.391 0041-10 Rectifier Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0041-10	Warning	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The load power exceeds the battery loading capacity.

Procedure

Step 1 Reduce the load power or check the number of batteries.

----End

1.392 0046-4 Discharger abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0046-4	Critical	Equipment alarm

Impact on the System

The discharger shuts down. If the mains loading capacity is insufficient, the module shuts down.

Possible Causes

N/A

Procedure

Step 1 Replace the power module or unit.

----End

1.393 0045-13 Charger Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0045-13	Critical	Equipment alarm

Impact on the System

The battery relay is not closed, and the charger and discharger do not work.

Possible Causes

N/A

Procedure

Step 1 Replace the power module or unit.

----End

1.394 0235-1 Batt. Relay Open Fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0235-1	Critical	Equipment alarm

Impact on the System

The charger and discharger shut down.

Possible Causes

N/A

Procedure

Step 1 Replace the power module or unit.

----End

1.395 0236-1 Batt. Short-circuit Fault Relay Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0236-1	Critical	Equipment alarm

Impact on the System

The battery relay is not closed, and the charger and discharger do not work.

Possible Causes

N/A

Procedure

Step 1 Replace the power module or unit.

----End

1.396 0237-1 Balancing Circuit Abnormality Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0237-1	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

N/A

Procedure

Step 1 Replace the power module or unit.

----End

1.397 0238-1 Mains phase open Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0238-1	Minor	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 If there are no batteries, the rack transfers to bypass mode or shuts down according to switchover logic.

----End

1.398 0238-2 Mains phase open Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0238-2	Minor	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 If there are no batteries, the rack transfers to bypass mode or shuts down according to switchover logic.

----End

1.399 0238-3 Mains phase open Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0238-3	Minor	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 If there are no batteries, the rack transfers to bypass mode or shuts down according to switchover logic.

----End

1.400 0239-1 Mains no input Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0239-1	Minor	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 If there are no batteries, the rack transfers to bypass mode or shuts down according to switchover logic.

----End

1.401 0242-1 Batt. Relay Close Check Fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0242-1	Critical	Equipment alarm

Impact on the System

The relay does not close, and the charger and discharger do not work.

Possible Causes

N/A

Procedure

Step 1 Remove other modules that experience DCDC short circuit faults and wait the fault to be rectified automatically.

----End

1.402 0243-1 Air filter maintenance reminder Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0243-1	Warning	Environmental alarm

Impact on the System

None.

Possible Causes

N/A

Procedure

Step 1 None.

----End

1.403 0244-1 Byp Running Derated Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0244-1	Warning	Quality of service alarm

Impact on the System

The bypass power is derated.

Possible Causes

N/A

Procedure

Step 1 Check whether the actual operating environment is at an altitude of 2000 m or higher and whether the setting on the LCD matches the actual situation.

----End

1.404 0177-2 Self-startup times limit Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0177-2	Minor	Equipment alarm

Impact on the System

The module does not automatically transfer back to inverter mode.

Possible Causes

N/A

Procedure

Step 1 Manually clear the fault and start the inverter.

----End

1.405 0049-1 Incorrect battery quantity Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0049-1	Minor	Processing error alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The number of batteries is incorrectly set.
- A battery is damaged.

Procedure

Step 1 Check the configured number of batteries.

Step 2 Check whether any battery is damaged.

----End

1.406 0040-28 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0040-28	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

- The fans for the power module are abnormal.
- The air channel of the power module is obstructed.

Procedure

Step 1 Check that the air channel of the module is free from blockage.

Step 2 Replace the power module if any fan is faulty.

----End

1.407 0040-29 Rectifier abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0040-29	Critical	Equipment alarm

Impact on the System

The module shuts down.

Possible Causes

The bus voltage sampling cable of the rectifier is not properly connected.

Procedure

Step 1 Replace the power module or unit.

----End

1.408 0420-1 UPS type mismatch Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0420-1	Critical	Equipment alarm

Impact on the System

The inverter cannot be started.

Possible Causes

N/A

Procedure

Step 1 Check whether the module type and model setting of each rack in the parallel system are consistent.

Step 2 Check that the module type of each rack is consistent.

Step 3 Check that the model setting of each rack is consistent and correct.

----End

1.409 0044-33 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-33	Critical	Processing error alarm

Impact on the System

The module operation is not affected.

Possible Causes

The rectifier Bootloader version does not match that in the running package.

Procedure

Step 1 Reload the rectifier Bootloader.

----End

1.410 0044-34 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-34	Critical	Processing error alarm

Impact on the System

The module operation is not affected.

Possible Causes

The inverter Bootloader version does not match that in the running package.

Procedure

Step 1 Reload the inverter Bootloader.

----End

1.411 0044-35 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-35	Critical	Processing error alarm

Impact on the System

The module operation is not affected.

Possible Causes

The ECM Bootloader version does not match that in the running package.

Procedure

Step 1 Reload the ECM Bootloader.

----End

1.412 0044-36 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-36	Critical	Processing error alarm

Impact on the System

The module operation is not affected.

Possible Causes

The bypass Bootloader version does not match that in the running package.

Procedure

Step 1 Reload the bypass Bootloader.

----End

1.413 0111-7 Rack communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0111-7	Critical	Equipment alarm

Impact on the System

Parameters cannot be synchronized between racks.

Possible Causes

The bypass cabinet has abnormal parallel CAN or exits the parallel system.

Procedure

Step 1 Check the bypass cabinet parallel cable connection.

----End

1.414 0597-1 Absent optional BSC card Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0597-1	Minor	Equipment alarm

Impact on the System

The inverter output cannot track the output of other vendor's UPS.

Possible Causes

N/A

Procedure

Step 1 If a BSC system needs to be formed using the optional BSC card and other vendor's UPS, connect the BSC card. Otherwise, set BSC mode to other modes in the monitoring settings.

----End

1.415 0598-1 BSC frequency beyond range Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0598-1	Minor	Equipment alarm

Impact on the System

The inverter output cannot track the output of other vendor's UPS.

Possible Causes

N/A

Procedure

- Step 1** Check whether the output of other vendor's UPS is normal.
 - Step 2** Check whether the cable from the output of other vendor's UPS to the optional BSC card is properly connected.
 - Step 3** Check whether the optional BSC card is damaged.
- End

1.416 0599-1 Incorrect BSC mode setting Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0599-1	Minor	Equipment alarm

Impact on the System

The inverter output cannot track the output of other vendor's UPS.

Possible Causes

N/A

Procedure

- Step 1** Set **BSC mode** to **Optional BSC card mode**.
- End

1.417 0026-3 Low battery voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0026-3	Minor	Equipment alarm

Impact on the System

The UPS cannot be cold-started by using batteries.

Possible Causes

- Battery discharge results in low battery voltage.
- The battery neutral wire is absent.
- The charger is faulty.

Procedure

Step 1 If the low battery voltage alarm is raised in battery mode, check whether the mains voltage recovers. If so, charge batteries immediately.

Step 2 Check whether the battery neutral wire is correctly connected.

Step 3 If this alarm is raised in mains inverter mode, check whether the battery switch is ON. If so, the charger may be faulty. Replace the related power module.

----End

1.418 0600-1 Fan life warning Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0600-1	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 Replace the fan and then press the reset button.

----End

1.419 0600-2 Fan life warning Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0600-2	Minor	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 Replace the fan and then press the reset button.

----End

1.420 0530-2 Battery ground fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0530-2	Critical	Equipment alarm

Impact on the System

When this alarm is detected, the system transfers to battery mode until the fault disappears or the batteries reach EOD. If the batteries cannot work when the fault occurs, the mains shuts down.

Possible Causes

N/A

Procedure

Step 1 Check that battery terminals are not grounded.

Step 2 Check the battery ground monitoring cable.

----End

1.421 0610-1 Output ground fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0610-1	Critical	Equipment alarm

Impact on the System

When this alarm is detected, the system transfers to battery mode until the fault disappears or the batteries reach EOD. If the batteries cannot work, the mains shuts down.

Possible Causes

N/A

Procedure

Step 1 Check that the output terminal is not grounded.

----End

1.422 0611-1 Bus ground fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0611-1	Critical	Equipment alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

N/A

Procedure

Step 1 In battery mode, the alarm does not trigger any action. After the system restores to mains power supply mode, the faulty module can raise a Mains voltage abnormal alarm. You are advised to replace the faulty module.

----End

1.423 0060-30 Inverter abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0060-30	Critical	Equipment Alarm

Impact on the System

The alarm module is powered off.

Possible Causes

- The battery or busbar is grounded.
- The load generates a large direct current.

Procedure

Step 1 Check whether the battery is incorrectly grounded. If yes, rectify the fault.

Step 2 Check whether an internal busbar is incorrectly grounded in the module. If yes, replace the power module.

Step 3 Check whether the UPS output current has a large DC component. If yes, the load is normal.

----End

1.424 0247-1 Battery test ended abnormally Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0247-1	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

During the battery test (shallow discharge test, capacity test, or constant current discharge test), the test is ended due to an exception.

Procedure

Step 1 Log in to the WebUI to export and view battery test logs. View the detailed cause of the ended test, and further locate the cause of the exception.

----End

1.425 0356-1 Battery Mode Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0356-1	Minor	Equipment Alarm

Impact on the System

N/A

Possible Causes

- The input voltage is abnormal.
- The output load is large.
- The power module or unit is abnormal.

Procedure

Step 1 Check whether the input voltage is abnormal.

Step 2 Check whether the output load is large.

Step 3 Check whether a power module or unit alarm is generated.

----End

1.426 0357-1 Source-share mode Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0357-1	Warning	Equipment Alarm

Impact on the System

N/A

Possible Causes

- The input voltage is abnormal.
- The output load exceeds the threshold.
- The power module or unit is abnormal.

Procedure

Step 1 Check whether the input voltage is abnormal.

Step 2 Check whether the output load is large.

Step 3 Check whether a power module or unit alarm is generated.

----End

1.427 0358-1 Bypass Mode Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0358-1	Warning	Equipment Alarm

Impact on the System

N/A

Possible Causes

- The inverter is not started.
- The load exceeds the threshold or the UPS switches to bypass mode due to impact loads.
- Another alarm is generated.

Procedure

Step 1 Start the inverter.

Step 2 Check whether the output load exceeds the threshold or has impact loads.

Step 3 Rectify another alarm.

----End

1.428 0359-1 No power supplied Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0359-1	Warning	Equipment Alarm

Impact on the System

N/A

Possible Causes

Another alarm is generated.

Procedure

Step 1 Rectify another alarm.

----End

1.429 0363-1 Insufficient inverter start capacity Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0363-1	Warning	Equipment Alarm

Impact on the System

The UPS does not meet the conditions for transferring from bypass mode to mains inverter mode.

Possible Causes

- The output load exceeds the threshold.
- The available UPS capacity is insufficient.

Procedure

Step 1 Check whether the output load exceeds the threshold.

Step 2 Check whether the UPS capacity meets load requirements.

----End

1.430 0336-1 PDC Mains input breaker open Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0336-1	Critical	Equipment Alarm

Impact on the System

N/A

Possible Causes

- The mains input circuit breaker on the PDC is OFF.
- The switch status cable is abnormal.

Procedure

Step 1 Check the mains input circuit breaker on the PDC.

Step 2 Check whether the switch status cable is abnormal.

----End

1.431 0337-1 PDC bypass input breaker open Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0337-1	Critical	Equipment Alarm

Impact on the System

N/A

Possible Causes

- The bypass input circuit breaker on the PDC is OFF.
- The switch status cable is abnormal.

Procedure

Step 1 Check the bypass input circuit breaker on the PDC.

Step 2 Check whether the switch status cable is abnormal.

----End

1.432 0338-1 PDC output breaker open Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0338-1	Critical	Equipment Alarm

Impact on the System

The mains inverter mode of a single UPS in the parallel system is disabled.

Possible Causes

- The output circuit breaker on the PDC is OFF.
- The switch status cable is abnormal.

Procedure

Step 1 Check the output circuit breaker on the PDC.

Step 2 Check whether the switch status cable is abnormal.

----End

1.433 0341-1 PDC Maint. breaker closed Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0341-1	Minor	Equipment Alarm

Impact on the System

The UPS transfers from mains inverter mode to bypass mode.

Possible Causes

- The maintenance circuit breaker on the PDC is ON.
- The switch status cable is abnormal.

Procedure

Step 1 Check the maintenance circuit breaker on the PDC.

Step 2 Check whether the switch status cable is abnormal.

----End

1.434 0342-1 Mains input breaker open Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0342-1	Critical	Equipment Alarm

Impact on the System

N/A

Possible Causes

- The mains input circuit breaker is OFF.
- The switch status cable is abnormal.

Procedure

Step 1 Check the mains input circuit breaker.

Step 2 Check whether the switch status cable is abnormal.

----End

1.435 0343-1 BPM input breaker open Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0343-1	Critical	Equipment Alarm

Impact on the System

N/A

Possible Causes

- The bypass input circuit breaker is OFF.
- The switch status cable is abnormal.

Procedure

Step 1 Check the bypass input circuit breaker.

Step 2 Check whether the switch status cable is abnormal.

----End

1.436 0344-1 Output breaker open Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0344-1	Critical	Equipment Alarm

Impact on the System

The mains inverter mode of a single UPS in the parallel system is disabled.

Possible Causes

- The output circuit breaker is OFF.
- The switch status cable is abnormal.

Procedure

Step 1 Check the output circuit breaker.

Step 2 Check whether the switch status cable is abnormal.

----End

1.437 0347-1 Sys maint. breaker closed Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0347-1	Minor	Equipment Alarm

Impact on the System

The UPS transfers from mains inverter mode to bypass mode.

Possible Causes

- The maintenance circuit breaker of the system is ON.
- The switch status cable is abnormal.

Procedure

Step 1 Check the maintenance circuit breaker of the system.

Step 2 Check whether the switch status cable is abnormal.

----End

1.438 0348-1 Sys output breaker open Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0348-1	Critical	Equipment Alarm

Impact on the System

N/A

Possible Causes

- The output circuit breaker of the system is OFF.
- The switch status cable is abnormal.

Procedure

Step 1 Check the output circuit breaker of the system.

Step 2 Check whether the switch status cable is abnormal.

----End

1.439 0612-1 Battery module fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0612-1	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged or discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged or discharged.

Possible Causes

- The sampling connector is not firmly connected.
- The board sampling circuit of the battery module is faulty.
- The battery module is faulty.

Procedure

Step 1 Replace the faulty battery module or remove the module according to the user manual.

----End

1.440 0612-2 Battery module fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0612-2	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged or discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged or discharged.

Possible Causes

- The sampling connector is not firmly connected.
- The board sampling circuit of the battery module is faulty.
- The battery module is faulty.

Procedure

Step 1 Replace the faulty battery module or remove the module according to the user manual.

----End

1.441 0021-5 Battery EOD Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0021-5	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB may trip, and the battery cabinet cannot be discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be discharged.

Possible Causes

The battery voltage reaches the EOD threshold due to continuous discharge.

Procedure

Step 1 Check the status of the battery cabinet and turn on the battery switch.

Step 2 Check the input source and charge batteries in a timely manner.

----End

1.442 0024-2 Battery undertemperature Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0024-2	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action (the charger current is limited).

Possible Causes

The cell temperature is too low.

Procedure

Step 1 Take measures to increase the ambient temperature.

----End

1.443 0023-2 Battery overtemperature Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0023-2	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action (the charger current is limited).

Possible Causes

The cell temperature is too high.

Procedure

Step 1 Take measures to reduce the ambient temperature.

----End

1.444 0025-2 Battery overvoltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0025-2	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The cell voltage is too high.

Procedure

- Step 1** Check the power cabinet status.
- Step 2** Check the lithium battery cabinet status.
- End

1.445 0026-4 Battery undervoltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0026-4	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The cell voltage is too low.

Procedure

- Step 1** Restore the mains input to the power cabinet and start the charger to charge the battery.
- End

1.446 0616-1 Battery undertemperature protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0616-1	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: When the battery is being charged, the charge MOS transistor is turned off. If three cells or more are protected against low temperature when the battery is being discharged, the BCB of the battery cabinet trips.

Micro-grid lithium battery: The contactor is disconnected, and the battery cannot be charged or discharged.

Possible Causes

The charger temperature is too low.

Procedure

Step 1 Take measures to increase the ambient temperature.

----End

1.447 0031-2 Battery overtemperature protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0031-2	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged or discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged or discharged.

Possible Causes

The battery temperature is too high.

Procedure

Step 1 Take measures to reduce the ambient temperature.

----End

1.448 0032-3 Battery overvoltage protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0032-3	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged.

Possible Causes

The voltage of a single cell is too high.

Procedure

Step 1 Check the power cabinet status.

Step 2 Check the lithium battery cabinet status.

----End

1.449 0617-1 Battery undervoltage protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0617-1	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be discharged.

Possible Causes

The cell is overdischarged.

Procedure

Step 1 Check the power cabinet status.

----End

1.450 0612-5 Battery module fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0612-5	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged or discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged or discharged.

Possible Causes

- The sampling connector is not firmly connected.
- The board sampling circuit of the battery module is faulty.
- The battery module is faulty.

Procedure

Step 1 Replace the faulty battery module.

----End

1.451 0612-6 Battery module fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0612-6	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged or discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged or discharged.

Possible Causes

- The sampling connector is not firmly connected.
- The board sampling circuit of the battery module is faulty.
- The battery module is faulty.

Procedure

Step 1 Replace the faulty battery module.

----End

1.452 0612-7 Battery module fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0612-7	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged or discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged or discharged.

Possible Causes

- The sampling connector is not firmly connected.
- The board sampling circuit of the battery module is faulty.
- The battery module is faulty.

Procedure

Step 1 Replace the faulty battery module.

----End

1.453 0025-3 Battery overvoltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0025-3	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The battery voltage reaches the high-voltage alarm threshold.

Procedure

Step 1 Check the power cabinet status.

Step 2 Check the lithium battery cabinet status.

----End

1.454 0027-2 Battery overcurrent Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0027-2	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The battery charge current reaches the overcurrent alarm threshold.

Procedure

Step 1 Check the power cabinet status.

Step 2 Check the lithium battery cabinet status.

----End

1.455 0026-5 Low battery voltage Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0026-5	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The battery voltage reaches the low-voltage alarm threshold.
- The input fuse is blown.

Procedure

Step 1 Check the input source and charge batteries in a timely manner.

Step 2 Check whether the input fuse is normal.

----End

1.456 0027-3 Battery overcurrent Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0027-3	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The battery discharge current reaches the overcurrent alarm threshold.

Procedure

Step 1 Check whether the power cabinet is overloaded. Reduce the power cabinet load to a proper range.

Step 2 Check the lithium battery cabinet status.

----End

1.457 0617-2 Battery undervoltage protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0617-2	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be discharged.

Possible Causes

The battery string overdischarges.

Procedure

Step 1 Check the input source, and charge batteries in a timely manner.

----End

1.458 0621-3 Battery overcurrent protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0621-3	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged or discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged or discharged.

Possible Causes

The battery charge or discharge current reaches the protection threshold.

Procedure

Step 1 Check whether the load of power cabinet exceeds the battery configuration.

Step 2 Replace the battery control unit.

----End

1.459 0032-5 Battery overvoltage protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0032-5	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged.

Possible Causes

The battery voltage exceeds the overvoltage protection threshold.

Procedure

Step 1 Check whether the battery voltage is normal.

Step 2 Replace the battery control unit.

----End

1.460 0620-6 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-6	Critical	Equipment Alarm

Impact on the System

The BCB trips, and the battery cabinet cannot be discharged.

Possible Causes

The battery control unit is abnormal.

Procedure

Step 1 Replace the battery control unit.

----End

1.461 0620-7 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-7	Critical	Equipment Alarm

Impact on the System

The BCB trips, and the battery cabinet cannot be discharged.

Possible Causes

The battery control unit is abnormal.

Procedure

Step 1 Replace the battery control unit.

----End

1.462 0620-8 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-8	Critical	Equipment Alarm

Impact on the System

The BCB trips, and the battery cabinet cannot be discharged.

Possible Causes

The battery control unit is abnormal.

Procedure

Step 1 Replace the battery control unit.

----End

1.463 0625-1 Inter-battery cabinet parallel cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0625-1	Minor	Communications Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The communications cable between the cabinets is not properly connected.

Procedure

Step 1 Check the cable connection of the inter-rack parallel cable.

----End

1.464 0625-2 Inter-battery cabinet parallel cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0625-2	Minor	Communications Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The communications cable between the cabinets is not properly connected.

Procedure

Step 1 Check the inter-rack parallel cable connection.

----End

1.465 0635-1 Battery module not detected Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0635-1	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged or discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged or discharged.

Possible Causes

The battery control unit does not receive an online query response from the battery module.

Procedure

Step 1 Check whether the signal terminal of the battery module is properly connected.

Step 2 Replace the battery module.

----End

1.466 0619-1 BCB tripping fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0619-1	Critical	Equipment Alarm

Impact on the System

The BCB cannot trip.

Possible Causes

The BCB box is faulty.

Procedure

Step 1 Check whether the BCB box runs properly.

Step 2 Check whether the connection between the BCB box and the MUE05A is normal.

----End

1.467 0362-4 BCB off Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0362-4	Critical	Equipment Alarm

Impact on the System

The BCB trips, and the battery cabinet cannot be charged or discharged.

Possible Causes

- The BCB switch is turned off.
- The BCB switch status signal cable is abnormal.

Procedure

Step 1 Turn on the BCB switch.

Step 2 Check whether the BCB switch status signal cable is properly connected.

----End

1.468 0620-1 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-1	Critical	Equipment Alarm

Impact on the System

The BCB trips, and the battery cabinet cannot be charged or discharged.

Possible Causes

The relay of the battery control unit is arcing.

Procedure

Step 1 Replace the battery control unit.

----End

1.469 0620-2 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-2	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged or discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged or discharged.

Possible Causes

The auxiliary power supply of the battery control unit is abnormal.

Procedure

Step 1 Replace the battery control unit.

----End

1.470 0620-3 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-3	Critical	Equipment Alarm

Impact on the System

The BCB trips, and the battery cabinet cannot be charged or discharged.

Possible Causes

The balanced circuit works abnormally.

Procedure

Step 1 Replace the battery control unit.

----End

1.471 0620-4 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-4	Critical	Equipment Alarm

Impact on the System

The battery cabinet cannot be charged or discharged. The BCB may trip.

Possible Causes

The balanced circuit works abnormally.

Procedure

Step 1 Replace the battery control unit.

----End

1.472 0043-14 Fan abnormal Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0043-14	Critical	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The fan is abnormal.

Procedure

Step 1 Replace the battery control unit.

----End

1.473 0621-1 Battery overcurrent protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0621-1	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged.

Possible Causes

The charger of the battery control unit is faulty.

Procedure

Step 1 Replace the battery control unit.

----End

1.474 0621-2 Battery overcurrent protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0621-2	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be discharged.

Possible Causes

- The load exceeds the upper threshold.
- The battery control unit is damaged.

Procedure

Step 1 Check whether the load of power cabinet exceeds the battery configuration.

Step 2 Replace the battery control unit.

----End

1.475 0623-1 Battery cabinet EPO Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0623-1	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged or discharged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged or discharged.

Possible Causes

The emergency shutdown signal of the battery cabinet is activated.

Procedure

Step 1 Manually clear the EPO state.

----End

1.476 0624-4 Not ready Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0624-4	Critical	Equipment Alarm

Impact on the System

The battery cabinet cannot be charged or discharged.

Possible Causes

The ready switch is not turned off.

Procedure

Step 1 Turn on the ready switch.

----End

1.477 0620-5 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-5	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged or discharged.

Micro-grid lithium battery: The alarm does not cause battery disconnection.

Possible Causes

The hardware overtemperature protection signal is valid.

Procedure

Step 1 Check whether the ambient temperature is too high.

Step 2 Replace the battery control unit.

----End

1.478 0032-4 Battery overvoltage protection Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0032-4	Critical	Environmental Alarm

Impact on the System

UPS lithium battery: The BCB trips, and the battery cabinet cannot be charged.

Micro-grid lithium battery: The contactor is disconnected, and the battery cabinet cannot be charged.

Possible Causes

- The battery string is abnormal.
- The battery control unit is abnormal.

Procedure

Step 1 Check the battery voltage.

Step 2 Replace the battery control unit.

----End

1.479 0628-1 Abnormal signal board Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0628-1	Critical	Abnormal signal board

Impact on the System

The alarm does not trigger any action. Other alarms may be generated.

Possible Causes

The signal transfer board is faulty.

Procedure

Step 1 Check the cable connection to the signal transfer board.

Step 2 Replace the signal transfer board.

----End

1.480 0629-1 Abnormal inter-battery cabinet parallel cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0629-1	Critical	Communications Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The inter-rack parallel system CAN is faulty.

Procedure

- Step 1** Check whether the inter-rack parallel cable is loose.
 - Step 2** Replace the inter-rack parallel cable.
 - Step 3** Replace the battery control unit or the signal transfer board.
- End

1.481 0629-2 Abnormal inter-battery cabinet parallel cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0629-2	Critical	Communications Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The inter-rack parallel cable is not properly connected.
- The 1# battery control unit is faulty or the connected 2# battery control unit is faulty.

Procedure

- Step 1** Check whether the inter-rack parallel cable is loose.
 - Step 2** Replace the inter-rack parallel cable.
 - Step 3** Replace the battery control unit or the signal transfer board.
- End

1.482 0629-3 Abnormal inter-battery cabinet parallel cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0629-3	Critical	Equipment Alarm

Impact on the System

The alarm does not trigger any action. Other alarms may be generated.

Possible Causes

The battery management module is not properly connected to the signal transfer board.

Procedure

Step 1 Check whether the cable between the battery management module and the signal transfer board is loose.

Step 2 Replace the signal transfer board.

----End

1.483 0630-1 Abnormal intra-battery cabinet parallel cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0630-1	Critical	Communications Alarm

Impact on the System

The alarm does not trigger any action. If the RS485 communication in the rack is abnormal, the battery management system enables the BCB to trip.

Possible Causes

The intra-rack parallel CAN is faulty.

Procedure

- Step 1** Check that the communications cables inside the battery cabinet are properly connected.
 - Step 2** Replace the communications cable between the battery control unit and the battery modules.
 - Step 3** Replace the battery control unit.
- End

1.484 0630-2 Abnormal intra-battery cabinet parallel cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0630-2	Critical	Communications Alarm

Impact on the System

UPS lithium battery: The battery management system does not work.

Micro-grid lithium battery: The system can still run properly even if a single RS485 communications cable is disconnected.

Possible Causes

The RS485 communications cable in the rack is faulty.

Procedure

- Step 1** Check that the communications cables inside the battery cabinet are properly connected.
 - Step 2** Replace the communications cable between the battery control unit and the battery modules.
 - Step 3** Replace the battery control unit.
- End

1.485 0630-3 Abnormal intra-battery cabinet parallel cable Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0630-3	Critical	Equipment Alarm

Impact on the System

The alarm does not trigger any action. Other alarms may be generated.

Possible Causes

The battery control unit is not properly connected to the signal transfer board.

Procedure

Step 1 Check whether the cable between the battery control unit and the signal transfer board is loose.

Step 2 Replace the battery control unit or the signal transfer board.

----End

1.486 0620-9 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-9	Critical	Equipment Alarm

Impact on the System

The alarm does not trigger any action. Other faults may occur at the same time.

Possible Causes

The intra-rack parallel cable is faulty.

Procedure

Step 1 Replace the battery control unit.

----End

1.487 0631-2 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0631-2	Critical	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The DSP software version does not match the battery control unit.

Procedure

Step 1 Load the software.

----End

1.488 0631-3 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0631-3	Critical	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The FPGA software version does not match the battery control unit.

Procedure

Step 1 Load the software.

----End

1.489 0631-4 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0631-4	Critical	Equipment Alarm

Impact on the System

The alarm has no impact on module.

Possible Causes

The battery module software is incompatible.

Procedure

Step 1 Load the software.

----End

1.490 0631-1 Version incompatible Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0631-1	Critical	Equipment Alarm

Impact on the System

The alarm has no impact on module startup.

Possible Causes

The software version does not match the battery control unit.

Procedure

Step 1 Load the software.

----End

1.491 0632-1 Lithium battery system communication failure Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0632-1	Minor	Equipment Alarm

Impact on the System

The lithium battery cannot be charged.

Possible Causes

The communication between the UPS monitoring unit and the lithium battery is interrupted.

Procedure

Step 1 Check the cable between the power cabinet monitoring unit and the lithium battery.

----End

1.492 0174-2 Software package not exist Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0174-2	Critical	Environmental Alarm

Impact on the System

N/A

Possible Causes

The package of the power unit or module does not exist in the monitoring system.

Procedure

Step 1 Upload the software packages of the power unit or module and MDU, and activate all the packages.

----End

1.493 0246-2 Batt.cabinet quantity mismatch Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0246-2	Minor	Equipment Alarm

Impact on the System

After the newly added rack is powered on, if the quantity mismatch alarm persists, the switch cannot be turned on.

Possible Causes

The configured number of battery cabinets does not match the actual available number.

Procedure

Step 1 Set the number of battery cabinets to be the same as the actual number.

Step 2 Check the parallel cable connection.

----End

1.494 0633-1 Lithium battery capacity mismatch Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0633-1	Minor	Environmental Alarm

Impact on the System

The battery fuse may be damaged, which affects power backup.

Possible Causes

The number of configured UPS modules exceeds the upper limit supported by the lithium battery cabinet.

Procedure

Step 1 Reduce the number of power modules or add a lithium battery cabinet.

----End

1.495 0637-1 DI Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0637-1	Warning	Equipment Alarm

Impact on the System

N/A

Possible Causes

The DI dry contact input status meets the alarm generation condition.

Procedure

Step 1 Check the DI alarm generation condition.

Step 2 Check whether the DI dry contact input status is the same as the alarm generation condition.

----End

1.496 0636-1 Battery module balance Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0636-1	Minor	Equipment Alarm

Impact on the System

The electrochemical cell consistency is poor. This affects the charge and discharge performance and affects backup power.

Possible Causes

- The cell balancing time is insufficient.
- The cell balancing cable is faulty.

Procedure

Step 1 Turn on the charger of the power cabinet and keep balancing for three days. Check whether the alarm is cleared.

Step 2 Replace the battery module.

----End

1.497 0636-2 Battery module balance Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0636-2	Minor	Equipment Alarm

Impact on the System

The electrochemical cell consistency is poor. This affects the charge and discharge performance and affects backup power.

Possible Causes

The electrochemical cell temperature consistency is poor.

Procedure

Step 1 Replace the battery module.

----End

1.498 0636-3 Battery module balance Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0636-3	Minor	Equipment Alarm

Impact on the System

Cells are unbalanced, which affects power backup.

Possible Causes

- The cell balancing time is insufficient.
- The cell balancing circuit is faulty.

Procedure

Step 1 Turn on the charger of the power cabinet, keep balancing for three days, and check whether the cell voltage difference decreases to below 50 mV.

Step 2 Mark the faulty battery module and manually power off the faulty battery cabinet.

Step 3 Replace the battery module.

----End

1.499 0620-10 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-10	Critical	Equipment Alarm

Impact on the System

Bus overvoltage or undervoltage may occur.

Possible Causes

The voltage sampling circuit is faulty.

Procedure

Step 1 Replace the battery control unit.

----End

1.500 0620-11 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-11	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The current equalization of the battery cabinet is affected.

Micro-grid lithium battery: Current sampling is faulty, affecting the normal running of the system.

Possible Causes

The current CT sampling circuit is faulty.

Procedure

Step 1 Replace the battery control unit.

----End

1.501 0620-12 Battery control unit fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-12	Critical	Equipment Alarm

Impact on the System

The BCB of the cabinet is disconnected, and this affects the backup power of the system.

Possible Causes

- The battery input cable is not connected.
- The battery input fuse is open-circuited.
- The battery control unit is faulty.

Procedure

Step 1 Check the battery cable connection.

Step 2 Replace the input fuse.

Step 3 Replace the battery control unit.

----End

1.502 0021-6 Battery EOD Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-12	Critical	Equipment Alarm

Impact on the System

UPS lithium battery: The battery cabinet BCB trips.

Micro-grid lithium battery: The battery cabinet contactor is disconnected.

Possible Causes

The battery voltage reaches the EOD threshold due to continuous discharge.

Procedure

Step 1 Check the input source, turn on the battery switch and charge batteries in time.

----End

1.503 0220-3 Abnormal SOH Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0220-3	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The state of health of a battery is abnormal.

Procedure

Step 1 Fully charge the batteries, and perform a capacity test.

Step 2 Replace the abnormal battery.

----End

1.504 0612-8 Battery module fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0612-8	Critical	Equipment Alarm

Impact on the System

The battery cabinet cannot be charged or discharged.

Possible Causes

The board of a battery module experiences a sampling fault.

Procedure

Step 1 Replace the faulty battery module.

----End

1.505 0612-9 Battery module fault Alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0612-9	Critical	Equipment Alarm

Impact on the System

The battery cabinet cannot be charged or discharged.

Possible Causes

The battery module function safety check invalid

Procedure

Step 1 Reset the faulty battery module.

Step 2 Replace the faulty battery module.

----End

1.506 0613-1 Battery module alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0613-1	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The battery module is faulty.

Procedure

Step 1 Manually clear the fault.

Step 2 Replace the faulty battery module.

----End

1.507 0653-1 Intra-battery cabinet parallel cable alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0653-1	Minor	Communications alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The communications cable of the battery module is disconnected.
- The battery module is faulty.

Procedure

Step 1 Check that the RS485 communications cable is properly connected.

Step 2 Replace the faulty battery module.

----End

1.508 0044-46 Version incompatible alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0044-46	Critical	Equipment Alarm

Impact on the System

The battery cabinet cannot be charged or discharged.

Possible Causes

The software and hardware versions of a battery module do not match.

Procedure

Step 1 Load the battery module software.

----End

1.509 0613-2 Battery module alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0613-2	Minor	Equipment Alarm

Impact on the System

The battery module cannot implement proactive equalization.

Possible Causes

- The equalization bus is reversely connected or short-circuited.
- The battery module is faulty.

Procedure

Step 1 Check that the two cables on the left of the battery module are properly connected and free from short circuit.

Step 2 Replace the faulty battery module.

----End

1.510 0613-4 Battery module alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0613-4	Minor	Equipment Alarm

Impact on the System

The battery module cannot implement proactive equalization.

Possible Causes

The equalization bus of the battery module is disconnected.

Procedure

Step 1 Check that the two cables on the left of the battery module are properly connected.

----End

1.511 0613-5 Battery module alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0613-5	Minor	Equipment Alarm

Impact on the System

The battery module cannot implement proactive equalization.

Possible Causes

The battery module is faulty.

Procedure

Step 1 Replace the faulty battery module.

----End

1.512 0613-6 Battery module alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0613-6	Minor	Equipment Alarm

Impact on the System

The battery module cannot implement proactive equalization.

Possible Causes

The battery module is faulty.

Procedure

Step 1 Replace the faulty battery module.

----End

1.513 0613-7 Battery module alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0613-7	Minor	Equipment Alarm

Impact on the System

The battery module cannot implement proactive equalization.

Possible Causes

The battery module is faulty.

Procedure

Step 1 Replace the faulty battery module.

----End

1.514 0613-3 Battery module alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0613-3	Minor	Equipment Alarm

Impact on the System

The battery module cannot implement proactive equalization.

Possible Causes

The temperature sensor has failed.

Procedure

Step 1 Replace the faulty battery module.

----End

1.515 0612-10 Battery module fault alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0612-10	Critical	Equipment Alarm

Impact on the System

The battery cabinet cannot be charged or discharged.

Possible Causes

The temperature sensor on the battery module wiring terminal is faulty.

Procedure

Step 1 Replace the faulty battery module.

----End

1.516 0654-1 Inner temperature alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0654-1	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

A battery module terminal is not tightened.

Procedure

Step 1 Check that the battery module terminals are tightened.

----End

1.517 0638-11 Inner temperature abnormal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0638-11	Critical	Equipment Alarm

Impact on the System

The battery cabinet cannot be charged or discharged.

Possible Causes

The battery module terminals are not tightened.

Procedure

Step 1 Check whether the alarm battery module terminals are tightened.

----End

1.518 0114-3 Module quantity mismatch alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0114-3	Critical	Equipment Alarm

Impact on the System

The battery cabinet cannot be charged or discharged.

Possible Causes

The number of battery modules is set incorrectly.

Procedure

Step 1 Check the number of battery modules.

----End

1.519 0655-1 Battery control unit alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0655-1	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

The battery control unit is faulty.

Procedure

Step 1 Clear the fault manually.

Step 2 Replace the battery control unit.

----End

1.520 0655-2 Battery control unit alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0655-2	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The Hall effect sensor works abnormally.
- The sampling circuit is faulty.

Procedure

Step 1 Replace the Hall if it is faulty.

Step 2 Replace the battery control unit.

----End

1.521 0620-14 Battery control unit fault alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-14	Critical	Equipment Alarm

Impact on the System

- During charging, the SMU limits the current to 0 A and the contactors are disconnected in 10s. The positive contactor and then the negative contactor are disconnected.
- During discharging, the negative contactor and then the positive contactor are disconnected.

Possible Causes

- The auxiliary power circuit is abnormal.

Procedure

Step 1 Replace the battery control unit.

----End

1.522 0655-3 Battery control unit alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0655-3	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The back of the battery control unit is loose.
- The battery control unit is faulty.

Procedure

Step 1 Reseat the battery pack on the back of the battery control unit.

Step 2 Replace the battery control unit.

----End

1.523 0620-15 Battery control unit fault alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-15	Critical	Equipment Alarm

Impact on the System

The battery cabinet cannot be charged or discharged.

Possible Causes

Battery control unit function test failed.

Procedure

Step 1 Reset the faulty battery control unit.

Step 2 Replace the battery control unit.

----End

1.524 0642-1 Battery contactor fault alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0642-1	Critical	Equipment Alarm

Impact on the System

The faulty battery cabinet should not be connected to the system.

Possible Causes

- Auxiliary contact feedback signal is faulty.
- The contactor is faulty.

Procedure

- Step 1** Check the auxiliary contact wiring.
- Step 2** Replace the faulty contactor.
- Step 3** Replace the battery control unit module.

----End

1.525 0644-1 Smoke alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0644-1	Critical	Equipment Alarm

Impact on the System

When the smoke sensor reports an alarm and the maximum cell temperature exceeds 75°C:

- During charging, the positive contactor and then the negative contactor are disconnected.
- During discharging, the negative contactor and then the positive contactor are disconnected.

Possible Causes

Smoke alarm.

Procedure

- Step 1** Check whether the alarm is true.
- Step 2** If it is a false alarm, manually clear it.
- Step 3** If smoke is generated, press the EPO button to shut down the entire system and start the fire extinguishing facility.
- End

1.526 0530-3 Battery ground fault alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0530-3	Critical	Equipment Alarm

Impact on the System

Insulation detection is performed before the contactor is closed. If the impedance is abnormal, the contactor cannot be closed.

Possible Causes

- The battery cabinet's positive/negative wiring is damaged.
- The battery cabinet's positive/negative ground is abnormal.
- The battery control unit board is faulty.

Procedure

- Step 1** Check the battery cabinet's positive/negative cable for damage.
- Step 2** Check if the positive/negative wiring of the battery cabinet is shorted to ground.
- Step 3** Replace the battery control unit module.
- End

1.527 0654-2 Inner temperature alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0654-2	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The terminal bolt on the positive output busbar of the battery cabinet is not tightened.
- The terminal on the positive output busbar of the battery cabinet is in poor contact with the connector.
- The sampling function of the NTC sensor on the positive output busbar of the battery cabinet is abnormal.

Procedure

Step 1 Check that the terminal bolt on the positive output busbar of the battery cabinet is tightened.

Step 2 Check that the terminal bolt on the positive output busbar of the battery cabinet is in good contact with the copper bar.

Step 3 Replace the NTC sensor on the positive output busbar of the battery cabinet.

----End

1.528 0654-3 Inner temperature alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0654-3	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The terminal bolt on the negative output busbar of the battery cabinet is not tightened.
- The terminal on the negative output busbar of the battery cabinet is in poor contact with the connector.
- The sampling function of the NTC sensor on the negative output busbar of the battery cabinet is abnormal.

Procedure

Step 1 Check that the terminal bolt on the negative output busbar of the battery cabinet is tightened.

Step 2 Check that the terminal bolt on the negative output busbar of the battery cabinet is in good contact with the copper bar.

Step 3 Replace the NTC sensor on the negative output busbar of the battery cabinet.

----End

1.529 0654-4 Inner temperature alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0654-4	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The terminal bolt for connecting a battery string cable to the positive copper bar of the power distribution subrack is not tightened.
- The terminal bolt for connecting a battery string cable to the positive copper bar of the power distribution subrack is in poor contact with the connector.
- The NTC sensor for a battery string cable to the positive copper bar of the power distribution subrack is faulty.

Procedure

- Step 1** Check that the terminal bolt for connecting a battery string cable to the positive copper bar of the power distribution subrack is tightened.
- Step 2** Check that the terminal bolt for connecting a battery string cable to the positive of the power distribution subrack is in good contact with the copper bar.
- Step 3** Replace the NTC sensor for a battery string cable to the positive copper bar of the power distribution subrack.

----End

1.530 0638-12 Inner temperature abnormal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0638-12	Critical	Equipment Alarm

Impact on the System

- During charging, the SMU limits the current to 0 A and the contactors are disconnected in 10s. The positive contactor and then the negative contactor are disconnected.
- During discharging, the negative contactor and then the positive contactor are disconnected.

Possible Causes

- The battery cabinet output positive busbar terminal bolts are not tightened.
- Poor contact between the battery cabinet output positive busbar terminal and the connector.
- The battery cabinet output positive busbar NTC sensor is faulty.

Procedure

- Step 1** Check whether the bolts on the positive bus bar of the battery cabinet are loose.
- Step 2** Check whether there is a poor contact between the positive bus bar of the battery cabinet and the bolts.
- Step 3** Replace the battery cabinet output positive busbar NTC sensor.
- End

1.531 0638-13 Inner temperature abnormal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0638-13	Critical	Equipment Alarm

Impact on the System

- During charging, the SMU limits the current to 0 A and the contactors are disconnected in 10s. The positive contactor and then the negative contactor are disconnected.
- During discharging, the negative contactor and then the positive contactor are disconnected.

Possible Causes

- The battery cabinet output negative busbar terminal bolts are not tightened.
- Poor contact between the battery cabinet output negative busbar terminal and the connector.
- The battery cabinet output negative busbar NTC sensor is faulty.

Procedure

- Step 1** Check whether the bolts on the output negative bus bar of the battery cabinet are loose.

Step 2 Check if there is a bad contact between the negative busbar of the battery cabinet output and the bolt.

Step 3 Replace the battery cabinet output negative busbar NTC sensor.

----End

1.532 0638-14 Inner temperature abnormal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0638-14	Critical	Equipment Alarm

Impact on the System

- During charging, the SMU limits the current to 0 A and the contactors are disconnected in 10s. The positive contactor and then the negative contactor are disconnected.
- During discharging, the negative contactor and then the positive contactor are disconnected.

Possible Causes

- The terminal bolt for connecting a battery string cable to the positive copper bar of the power distribution subrack is not tightened.
- The terminal bolt for connecting a battery string cable to the positive copper bar of the power distribution subrack is in poor contact with the connector.
- The NTC sensor for a battery string cable to the positive copper bar of the power distribution subrack is faulty.

Procedure

Step 1 Check that the terminal bolt for connecting a battery string cable to the positive copper bar of the power distribution subrack is tightened.

Step 2 Check that the terminal bolt for connecting a battery string cable to the positive copper bar of the power distribution subrack is in good contact with the connector.

Step 3 Replace the NTC sensor for a battery string cable to the positive copper bar of the power distribution subrack.

----End

1.533 0044-47 Version incompatible alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
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Alarm ID	Alarm Severity	Alarm Type
0044-47	Critical	Equipment Alarm

Impact on the System

The battery cabinet cannot be charged or discharged.

Possible Causes

The software and hardware versions of the battery control unit do not match.

Procedure

Step 1 Reload the software.

----End

1.534 0646-1 Switch abnormal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0646-1	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The QF2 trip unit auxiliary contact is off.
- The QF2 trip unit cannot be disengaged.

Procedure

Step 1 Detect the QF2 auxiliary contact wiring.

Step 2 Replace the QF2 trip unit.

----End

1.535 0647-1 Switch off alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0647-1	Critical	Equipment Alarm

Impact on the System

The equipment cannot be started.

Possible Causes

The QS1 switch is off.

Procedure

Step 1 Turn on the QS1 switch.

----End

1.536 0647-2 Switch off alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0647-2	Critical	Equipment Alarm

Impact on the System

After the alarm is reported, the equipment will try to start and will be locked after five attempts. It will attempt to start again after the QF1 switch is turned on.

Possible Causes

The QF1 switch is off.

Procedure

Step 1 Turn on the QF1 switch.

----End

1.537 0127-2 Water alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0127-2	Critical	Environmental alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

Water has entered the battery cabinet.

Procedure

Step 1 Check that the water sensor cable is properly connected.

Step 2 Check the status of the battery cabinet.

----End

1.538 0620-16 Battery control unit fault alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-16	Critical	Equipment Alarm

Impact on the System

The voltage sampling of the battery output busbar is affected. The equipment should not be started.

Possible Causes

- Release the sampling terminal on the back of the battery control unit.
- The battery control unit sampling circuit is faulty.

Procedure

Step 1 Re-plug the sampling terminal on the back of the battery control unit.

Step 2 Replace the battery control unit.

----End

1.539 0649-1 Temperature sensor abnormal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0649-1	Minor	Equipment Alarm

Impact on the System

The alarm does not affect system running.

Possible Causes

- The BUS TEMP terminal is loose.
- The BUS TEMP sampling line is faulty.

Procedure

Step 1 Re-plug the BUS TEMP terminal.

Step 2 Replace the BUS TEMP sampling line.

----End

1.540 0649-2 Temperature sensor abnormal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0649-2	Minor	Environmental alarm

Impact on the System

N/A

Possible Causes

The Temp1 terminal is loose.

Procedure

Step 1 Re-plug the Temp1 terminal.

----End

1.541 0649-3 Temperature sensor abnormal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0649-3	Minor	Environmental alarm

Impact on the System

N/A

Possible Causes

The Temp1 terminal cable is faulty.

Procedure

Step 1 Replace the TEMP1 terminal cable.

----End

1.542 0649-4 Temperature sensor abnormal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0649-4	Minor	Equipment Alarm

Impact on the System

The alarm does not affect system running.

Possible Causes

- The BUS TEMP sampling cable is faulty.
- The NTC sensor on the positive output busbar of the battery cabinet is faulty.
- The battery control unit is faulty.

Procedure

- Step 1** Check that the positive output busbar of the battery cabinet is in good contact with the terminal bolt.
- Step 2** Replace the BUS TEMP sampling cable.
- Step 3** Replace the NTC sensor on the positive output busbar of the battery cabinet.
- End

1.543 0649-5 Temperature sensor abnormal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0649-5	Minor	Equipment Alarm

Impact on the System

The alarm does not affect system running.

Possible Causes

- The BUS TEMP sampling cable is faulty.
- The NTC sensor on the negative output busbar of the battery cabinet is faulty.
- The board of the battery control unit is faulty.

Procedure

- Step 1** Check that the negative output busbar of the battery cabinet is in good contact with the terminal bolt.
- Step 2** Replace the BUS TEMP sampling cable.
- Step 3** Replace the NTC sensor on the negative output busbar of the battery cabinet.
- End

1.544 0649-6 Temperature sensor abnormal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0649-6	Minor	Equipment Alarm

Impact on the System

The alarm does not affect system running.

Possible Causes

- The BUS TEMP sampling cable is faulty.
- The NTC sensor for a battery string cable to the positive copper bar of the power distribution subrack is faulty.
- The board of the battery control unit is faulty.

Procedure

Step 1 Check that the terminal bolt for connecting a battery string cable to the positive busbar of the power distribution subrack is in good contact with the copper bar.

Step 2 Replace the BUS TEMP sampling cable.

Step 3 Replace the NTC sensor for a battery string cable to the positive copper bar of the power distribution subrack.

----End

1.545 0020-2 Battery reversal alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0020-2	Critical	Equipment Alarm

Impact on the System

The lithium battery should not be connected to the system.

Possible Causes

The positive and negative terminals of the battery cable are reversed.

Procedure

Step 1 Check battery terminals, and install batteries again.

----End

1.546 0620-17 Battery control unit fault alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-17	Critical	Equipment Alarm

Impact on the System

The BCB trips, and the battery cabinet cannot be charged or discharged.

Possible Causes

The balanced circuit works abnormally.

Procedure

Step 1 Replace the battery control unit.

----End

1.547 0620-18 Battery control unit fault alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0620-18	Critical	Equipment Alarm

Impact on the System

The BCB trips, and the battery cabinet cannot be charged or discharged.

Possible Causes

The soft-start circuit works abnormally.

Procedure

Step 1 Replace the battery control unit.

----End

1.548 0128-2 Copper Bar Over Temp Warn alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0128-2	Minor	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The battery copper bar is overheated or overloaded.
- The customer's wiring terminal is not securely connected.
- The dry contact signal cable is not securely connected.

Procedure

- Step 1** Check the equipment room ventilation and reduce the load rate.
- Step 2** Check whether the customer's connecting terminals are connected firmly.
- Step 3** The maintenance engineer checks the connection of the copper busbar overtemperature dry contact signal cable.

----End

1.549 0651-1 Fire extinguisher started alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0651-1	Critical	Equipment Alarm

Impact on the System

The alarm does not trigger any action.

Possible Causes

- The fire extinguisher in the battery cabinet is triggered.
- The fire cylinder in the battery cabinet leaks.

Procedure

Step 1 Check the terminal firefighting pressure gage in the battery cabinet.

Step 2 Replace the firefighting bottle.

----End

1.550 0652-1 Incorrect battery module wiring alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0652-1	Critical	Equipment Alarm

Impact on the System

The BCB should not be switched on, and the battery cabinet cannot be charged or discharged.

Possible Causes

- The battery module power cable is incorrectly connected.
- The number of battery modules configured for each rack in the parallel system is inconsistent.

Procedure

Step 1 Check the power cable connection of the battery modules.

Step 2 Refer to the requested number of battery modules configured for the rack in the product user manual. Check the number of battery modules configured for each rack in the parallel system.

----End

1.551 0617-3 Battery undervoltage protection alarm

Attribute

Alarm ID	Alarm Severity	Alarm Type
0617-3	Critical	Equipment Alarm

Impact on the System

The contactor is disconnected, and the battery cabinet cannot be discharged.

Possible Causes

The battery string overdischarges, module voltage is less than the setting value of module battery LVD voltage.

Procedure

Step 1 Check the input source, and charge batteries in a timely manner.

----End