

UPS5000-E Modular UPS

(40-800kVA)

Features

High Reliability

- Wide input voltage range minimizing battery use: 485-305 Vac for 100% load; 305-138 Vac for 100%-40% load (derating linearly)
- Dual-controller design, eliminating the single point of failure
- Fault-tolerance design for fan system: 30% load can be driven when 2 fans fail and 50% load when 1 fan fails

Low Power Consumption

- High efficiency at online mode: 96% for 40% rated load; 95% for 20% rated load
- Intelligent hibernation technology to keep UPS operating at high efficiency (available in both single and parallel configuration)

High Availability

- Modularized design, expanding as required
- Hot swappable power module, bypass module and control module, easy to maintenance and expansion
- High output power factor up to 1 and no derating for devices with a PF>0.5

Easy Management

- 7-inch colored LCD showing real-time operation status in various languages
- Various communication interfaces including SNMP, dry contacts, RS485
- NetEco network manager, supporting concentrated management to all the UPSs

Intelligent Battery Management

- Flexible battery configuration
- One battery string shared by all the UPS that are selectable under parallel configuration
- Intelligent temperature compensation
- The intelligent adjustment of Battery charging and discharging current to extend the battery lifespan



Optional Components

- Dry Contact Extended Card
- Backfeed Protection Card
- Input Power Distribution Cabinet
- Output Power Distribution Cabinet
- BCB Box
- Battery Switch Box
- Battery Inspection System
- Battery Grounding Failure Detection Instrument
- Battery Temperature Sensor



Specification

Model	UPS5000-E-120K-F120	UPS5000-E-200K-F200	UPS5000-E-320K-F320	UPS5000-E-480K-F480	UPS5000-E-600K-F600	UPS5000-E-800K-F800
Rated Capacity(kVA/kW)	40-120	40-200	40-320	40-480	40-600	40-800
Input						
Mains	Rated Voltage	380/400/415 Vac				
	Voltage Range	138-485 Vac (305-485 Vac for 100% load; 138-305 Vac for 40%-100% load)				
	Input Wiring	3Ph+N+PE				
	Input Frequency	40-70 Hz				
	Total Harmonic Distortion	THDi<3% for linear load, THDi<5% for nonlinear load				
	Input Power Factor	0.99				
Bypass	Rated Voltage	380/400/415 Vac				
	Input Frequency	50/60±6 Hz				
	Input Wiring	3Ph+N+PE				
Battery	Rated Voltage	360-480 Vdc (the number of batteries can be selected from 30 to 40; 32 batteries in default)				
Output						
Voltage		380/400/415 Vac±1%				
Frequency		Tracking the bypass input(Online Mode); 50/60 Hz±0.1%(Battery Mode)				
Output Wiring		3Ph+N+PE				
Waveform		Sine wave (THDv<1% for linear load; THDv<3% for non-linear load)				
Output Power Factor		1				
Efficiency		96%				
Overload Capacity		Inverter: 110% overload for 60 min; 125% overload for 10 min; 150% overload for 1 min Bypass: 135% overload for long term; <1000% overload for 100ms				
Environment						
Operating Temperature		0-40℃				
Storage Temperature		-40-70℃				
Relative Humidity		0%-95%(no condensing)				
Maximum Operating Altitude		1000 m. Above 1000 m, derating 1% for each additional 100 m				
Other						
Dimension(H*W*Dmm)	2000×600×850			2000×1200×850	2000×2000×850	2000×2400×850
Weight (kg)	227-293	227-359	227-550	693-1050	1045-1500	1185-1800
Communication	Dry contacts, RS485, SNMP					