

UPS5000-E

120kVA

Introduction

Based on the online double conversion technology, UPS5000-E-120k-FX can provide reliable, pure and uninterrupted power for critical ICT equipment. The modularized architecture helps improve the availability and reduce the engineering cost significantly.

Scenarios

- Small & medium data center
- Large enterprise regional datacenter
- Central offices, dispatch center, control center, etc.

Features

Simple

- Hot swappable power module, bypass module and control module simplify maintenance and expansion in 5 minutes

Green

- Compact design
- 96% system efficiency, high efficiency at light-load

Smart

- iPower pre-warnings for key components

Reliable

- Redundant architecture eliminates single point of failure
- 138-485Vac ultra-wide input voltage range, suitable for the worst power grid



30kVA Power Module @2U



UPS5000-E-120k-FX

Specifications

Model		UPS5000-E-120k-FX			
Rated Capacity (kVA/kW)		30kVA/30kW	60kVA/60kW	90kVA/90kW	120kVA/120kW
Number of Power Modules		1	2	3	4
Mains Input	Input Wiring	3Ph+N+PE			
	Rated Voltage	380/400/415Vac			
	Voltage Range	138-485VAC (305-485VAC for 100% load; 138-305VAC for 40%-100% load)			
	Input Frequency	40-70Hz			
	Current total Harmonic Distortion(THDi)	<3% for linear load			
	Input Power Factor	0.99			
Bypass Input	Input Wiring	3Ph+N+PE			
	Rated Voltage	380/400/415VAC			
	Input Frequency	50/60 ± 6Hz			
Battery	Rated Voltage	360-528VDC (VRLA, the number of batteries can be selected from 30 to 44; 40 batteries in default) 512Vdc (Huawei SmartLi)			
Output	Output Wiring	3Ph+N+PE			
	Voltage	380/400/415VAC ± 1%			
	Frequency	Tracking the bypass input (Normal mode); 50/60Hz ± 0.05% (Battery mode)			
	voltage total harmonic distortion(THDv)	<1% for linear load			
	Output Power Factor	1			
	Overload Capacity	Inverter: 105%<load≤110% for 60 mins, then transfer to bypass mode; 110%<load≤125% for 10 mins, then transfer to bypass mode; 125%<load≤150% for 1 min, then transfer to bypass mode; load>150% for 200ms, then transfer to bypass mode;			
	Efficiency	Up to 96%			
	Expandability	4			
Environment	Operating Temperature	0°C-40°C			
	Storage Temperature	-40°C to 70°C			
	Relative Humidity	0%-95% (No condensing)			
	Operating Altitude	0-1000m. Above 1000m, derating rate based on EN/IEC 62040-3, Maximum altitude: 4000 m			
Others	Cable route-in	Compatible with top and bottom route-in cables*			
	Switch	690VAC 250A/3P (maintenance bypass, mains, and static bypass input, and output switches)			
	H × W × D (mm)	2000 × 600 × 850			
	Weight	250kg	270kg	290kg	310kg
	Certifications	CE, CB, RoHS, REACH, WEEE, etc.			

Note:

*In the scenario where cables are routed in from the top, the maximum outer diameter of a single-core flexible cable group is 120 mm² or less. If the specifications are exceeded, configure the top cable inlet side cabinet. Unable to support energy-feedback loads and life-support loads such as elevators, operating room equipment, semiconductor industry cutting machines, and other motor loads using energy-feedback inverters.



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