

# UPS5000-E

## 120kVA

### Introduction

Based on the online double conversion technology, UPS5000-E-120k-FM 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, saving the footprint by 50%
- 96% system efficiency, high efficiency at light-load

#### Smart

- iPower pre-warnings for key components by AI method

#### 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-FM

## Specifications

Model		UPS5000-E-120k-FM			
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			
	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 (Li-ion battery, 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)			
	Waveform	Sine wave (THDv<1% for linear load)			
	Output Power Factor	1			
	Overload Capacity	Inverter: 100%<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	0-40°C			
	Storage Temperature	-40 to 70°C			
	Relative Humidity	0%-95% (No condensing)			
	Operating Altitude	0-1000m. Above 1000m, derating rate based on EN/IEC 62040-3			
	Cable route-in	Top incoming cables			
	Isolation switch	690V AC/250A/3P (maintenance bypass, mains, and static bypass input switches, and output switches)			
Others	H × W × D (mm)	2000 × 600 × 850			
	Weight(kg)	250	270	290	310
	Certifications	CE, CB, RoHS, REACH, WEEE, etc.			
	Communications	Dry contacts, RS485, SNMP			

Note: The UPS5000 does not support energy feedback loads, such as elevators, medical CT machines, semiconductor cutting machines, and other motor loads that use energy feedback inverters.