

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.