

FusionPower Series

UPS5000-S-600kVA-NN (3-Phase 3-wire)

Introduction

UPS5000-S-600kVA Three Phase Three wire adopts UPS5000-S which achieves high efficiency, the system efficiency up to 97%. Benefiting from high performance DSP and high speed communication technology, the system achieves leading expandability and availability. Its high efficiency, high availability match the requirements of cloud data center perfectly.

Scenarios

- Data centers in headquarter or disaster recovery data centers
- Internet data centers
- Semiconductor industry
- Large cloud computing data centers

Features

Reliable

- Redundant design for modules, elimination of the single point of failure
- iPower pre-warnings for key components in case of power supply interruption
- iBattery to monitor battery status in case of fire
- Various environmental verification to ensure high reliability

Efficient

- High module efficiency up to 97.5% and system efficiency up to 96.5%-97% at most frequently-used load rate
- 50% footprint saving

Simple

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



Power Module:50VA/3U



UPS5000-S-600K-NN

Specifications

Model		UPS5000-S-600K-NN (3-phase 3-wire)
Mains Input	Input Wiring	3Ph+PE
	Rated Voltage	380V/400V/415V/420/480Vac
	Voltage Range	380V/400V/415V/420V Mode: 138-485Vac (304-485Vac for full load); 480V Mode: 192-528Vac (384-528Vac for full load)
	Frequency Range	40-70Hz
	Total Harmonic Distortion	THDi<3% for 100% linearload
	Input Power Factor	> 0.99(Full load)
Bypass Input	Input Wiring	3Ph+PE
	Rated Voltage	380V/400V/415V/420/480Vac
	Input Frequency	50/60 ± 6Hz
Battery	Rated Voltage	360-600Vdc (The number of batteries can be selected from 30 to 50; 40 batteries in default) 512Vdc (Li-ion battery: Huawei SmartLi)
Output	Output Wiring	3Ph+PE
	Voltage	380V/400V/415V/420/480Vac ± 1%
	Frequency	Tracking the bypass input (Normal mode); 50/60Hz ± 0.1% (Battery mode)
	Waveform	Sine wave (THDv<1% for linear load)
	Overload Capacity	Inverter: 110% overload for 60 minutes; 125% overload for 10 minutes
System	Output Power Factor	1
	Efficiency	Up to 97%
	Stand-alone Capacity	50-600kVA
	Parallel Quantity	6 Sets
	Cabling Mode	Top or bottom
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
Others	Height × Width × Depth(mm)	2000*1400*850
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; UL; RoHS, REACH, WEEE, GR63-zone4; NTT Class 7 anti-seismic, etc. UL1778; FCC Part15 Class A (for 480V only)
	Communications	Dry contacts, RS485, SNMP
	Intelligent Hibernation	Customizable number of redundant power modules during hibernation; Hibernation wake-up time 10ms
	Optional Components	Top air-flow cabinet, Cable entry cabinet, Back feed protection card, surge protection device

Remark: For important systems that are related to important economic interests or public security, such as civil aviation management center, financial clearing center, and trading center, the Tier IV or Tier III power supply level specified in T1942 must be used. That is, two UPSs form dual-bus power supply or the UPS and mains form dual-bus power supply.