

# UPS5000-E

## 400-600kVA, SMS/FMS

### Introduction

UPS5000-E series (400-600kVA)-SMS/FMS is a high performance modular UPS comprising of 3U 60kVA power modules. It has leading performance in the industry and delivers reliability, efficiency, simplicity and intelligence to the customer. These features meet the power supply needs of large data centers in the cloud computing era.

### Scenarios

- Data centers in headquarter or disaster recovery data centers
- Internet data centers
- Large cloud computing datacenters
- Large IT device and manufacture device
- Public safety system and E-government system

### Features

#### Reliable

- 138-485Vac ultra-wide input voltage range, suitable for the worst power grid
- Redundant design for modules, elimination of the single point of failure
- iPower pre-warnings for key components in case of power supply interruption

#### Efficient

- High efficiency up to 96% at most frequently-used load rate
- Intelligent hibernation technology ensures efficient UPS operation
- Single power module capacity up to 60kVA/54kW. Single UPS capacity up to 600kVA/540kW, 50% footprint saving, more IT rack space

#### Simple

- Hot swappable power module, bypass module and control module, simple maintenance and expansion in 5 minutes
- iPower real time monitoring system for UPS, PDU and batteries, elimination of manual routing inspection



400kVA/500kVA-SMS/FMS



600kVA-SMS/FMS

## Specifications

Model		UPS5000-E-400K-SMS	UPS5000-E-400K-FMS	UPS5000-E-500K-SMS	UPS5000-E-500K-FMS	UPS5000-E-600K-SMS	UPS5000-E-600K-FMS
Rated Capacity (kVA)		400	400	500	500	600	600
Number of Power Modules		1-7	1-7	1-9	1-9	1-10	1-10
Mains input	Input Wiring	3Ph+N+PE					
	Rated Voltage	380/400/415Vac					
	Input Voltage Range	0-30°C: 324-485Vac for 100% load; 138-324Vac for 35%-100% load 30-40°C:343-485Vac for 100% load; 138-343Vac for 35%-100% load					
	Input Frequency Range	40-70Hz					
	Input Power Factor	0.99					
Bypass Input	Rated Voltage	380/400/415Vac					
	Input Frequency	50/60 ± 6Hz					
Battery	Rated Voltage	360-528Vdc (The number of batteries can be selected from 30 to 44; 40 batteries in default)					
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)					
	Overload Capacity	105%<Load≤110%, 60min; 0-30°C, 110%<Load≤125%, 10min; 30-40°C, 110%<Load≤125%, 3min; 125%<Load≤150%, 30s; Load > 150%:200ms					
	Output Power Factor	0.9					
System	Efficiency	Up to 96%					
	Expandability	≤8					
Environment	Operating Temperature	0 to 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					
	Audible Noise	62dB @50%Load		62.5dB @50%Load		63dB @50%Load	
Others	H × W × D(mm)	2000 × 1200 × 850				2000 × 1400 × 850	
	Weight at rated capacity (kg)	640	680	780	800	975	1025
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.					
	Communications	Dry contacts, RS485, SNMP					

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.