

FusionPower Series

UPS5000-A-(30-120kVA)

Introduction

The UPS5000-A (30-120kVA) is an online, double-conversion, and tower/ rack convertible UPS that Huawei has launched. It uses the digital signal processing (DSP) technology to output pure and stable sine wave with a voltage of 380/400/415 Vac. With comprehensive reliability assurance measures and other leading technologies, the UPS5000-A (30-120kVA) can provide reliable, economical, intelligent, and convenient solutions to medium power scenarios.

Scenarios

- Small and medium-sized data centers
- Telecom and Internet switch rooms
- Equipment rooms of branch offices in sectors such as finance
- Infrastructures, such as control equipment rooms, wireless systems, etc.

Features

Reliable

- Wide input voltage range to minimize battery use: 485-305 Vac for 100% load; 305-138 Vac for 100%-40% load (derating linearly)
- High output power factor of up to 1 (30/40/80kVA), 30% more load driven than traditional UPS

Efficient

- High efficiency at online mode of up to 95.7%, reducing power consumption of UPS and cooling equipment effectively

Simple

- Rack/tower convertible, suitable for different installation scenarios
- Flexible battery configuration: 30-44 batteries per string allow customers to get the faulty battery out instead of replacing it



UPS5000-A-30/40K



UPS5000-A-60/80/120K

Specifications

Rated Capacity (kVA/kW)		30kVA/30kW	40kVA/40kW	60kVA/54kW	80kVA/80kW	120kVA/108kW
Mains Input	Input Wiring	3Ph+N+PE				
	Rated Voltage	380/400/415Vac				
	Voltage Range	138-485Vac				
	Frequency Range	40-70Hz				
	Total Harmonic Distortion	THDi<3% for 100% 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 (The number of batteries can be selected from 30 to 44; 30/40/80kVA 32 batteries in default, 60/120kVA 40 batteries in default)				
Output	Output Wiring	3Ph+N+PE				
	Rated Voltage	380/400/415Vac ± 1%				
	Frequency	Tracking the bypass input (Normal mode); 50/60Hz ± 0.05% (Battery mode)				
	Waveform	Sine wave (THDv<1% for 100% linear load)				
	Overload Capacity	30/40/80kVA: 110% overload for 60 min; 125% overload for 10 min; 150% overload for 1 min 60/120kVA: 110% overload for 60 min; 125% overload for 10 min; 150% overload for 0.5 min				
System	Output Power Factor	30/40/80kVA: 1; 60/120kVA: 0.9				
	Efficiency	Up to 95.7%				
	Expandability	Up to 8 units connected in parallel				
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				
	Audible Noise	58-64dB				
Others	Height × Width × Depth (mm)	500 × 264 × 800		1020 × 440 × 850		
	Weight	70kg		140kg		170kg
	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.