



Huawei Energy Powering the Future
Huawei UPS Solutions

UPS5000-A Series

(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

High Reliability

- Wide input voltage range to minimize battery use: 485-305 Vac for 100% load; 305-138 Vac for 100%-40% load (derating linearly)

Low Power Consumption

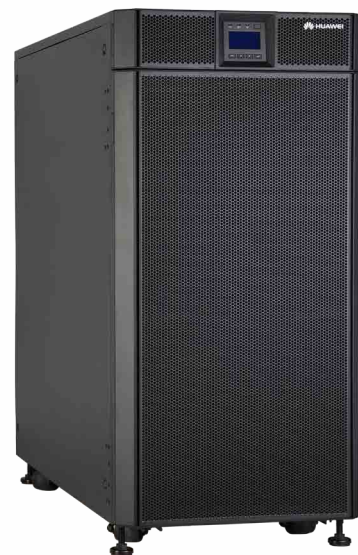
- High efficiency at online mode of up to 95.7%, reducing power consumption of UPS and cooling equipment effectively

High Availability

- Rack/tower convertible, suitable for different installation scenarios
- High output power factor of up to 1, 30% more load driven than traditional UPS
- Flexible battery configuration: 30-40 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/60kW	80kVA/80kW	120kVA/120kW
Mains Input	Input Wiring	3Ph+N+PE				
	Rated Voltage	380/400/415 Vac				
	Voltage Range	138-485 Vac				
	Frequency Range	40-70 Hz				
	Total Harmonic Distortion	THDi<3% for 100% linear load				
	Input Power Factor	0.99				
Bypass Input	Input Wiring	3Ph+N+PE				
	Rated Voltage	380/400/415 Vac				
	Input Frequency	50/60±6 Hz				
Battery	Rated Voltage	360-480 Vdc (The number of batteries can be selected from 30 to 40; 32 batteries in default)				
Output	Output Wiring	3Ph+N+PE				
	Rated Voltage	380/400/415 Vac±1%				
	Frequency	Tracking the bypass input (Online mode); 50/60 Hz±0.1% (Battery mode)				
	Waveform	Sine wave (THDv<1% for 100% linear load)				
	Overload Capacity	110% overload for 60 minutes; 125% overload for 10 minutes; 150% overload for 1 minute				
System	Output Power Factor	1				
	Efficiency	Up to 95.7%				
	Expandability	Up to 4 units connected in parallel				
Environment	Operating Temperature	0-40°C				
	Storage Temperature	-40-70°C				
	Relative Humidity	0%-95% (No condensing)				
	Operating Altitude	1000 m. Above 1000 m, derating according to IEC62040-3				
	Audible Noise	≤58 dB		≤64 dB		
Others	Height×Width×Depth	500 mm × 264 mm × 800 mm		1020 mm × 440 mm × 850 mm		
	Weight	70 kg		200 kg		240 kg
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.				
	Communications	Dry contacts, RS485, SNMP				