

# UPS5000-A Series

## (30-120kVA)

### Introduction

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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

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- 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

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#### 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				

Notice:

1. The UPS series are for commercial/industrial use and not used for life support equipment;
2. The critical systems concerning economic and public security must adopt power supply architecture that comply with Uptime TIER III or TIER IV requirements stated in TIA942.

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