



Huawei Energy Powering the Future
Huawei UPS Solutions

UPS5000-A Series

(200-800kVA)

Introduction

Huawei UPS5000-A (200-800kVA) is an online double conversion UPS which can output pure sine wave with rated voltage of 380/400/415 Vac. UPS5000-A has a high efficiency of up to 96% and high power density of up to 300kVA per cabinet; all-digital control allows precise output at any input and load condition. It's suitable to ensure continuous power supply to critical loads in large datacenters.

Scenarios

- Large data centers, server rooms, security systems of finance, telecom and other large enterprises
- Data center of government or public institutions
- Precision instruments

Features

High Reliability

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

Low Power Consumption

- High efficiency of up to 96%, reducing power consumption effectively

High Availability

- High power density of up to 300kVA per rack, 50% footprint saving compared with traditional UPS
- Better load adaptability: high output power factor up to 1 and no derating for capacitive or inductive devices with a PF>0.5
- Flexible battery configuration: 30-40 batteries per string allow customers to get the faulty battery out instead of replacing it



UPS5000-A-200/300K



UPS5000-A-400/500K

Specifications

Rated Capacity		200kVA/200kW	300kVA/300kW	400kVA/380kW	500kVA/475kW	600kVA/570kW	800kVA/760kW
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	0.95				
	Efficiency	96%					
	Expandability	Up to 4 units connected in parallel					
	Cable Entry Route	From the top or from the bottom					
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	< 65 dB	< 68 dB	< 70 dB			
Others	Height×Width×Depth (mm)	2000 × 600 × 850		2000 × 1200 × 850		2000 × 2000 × 850	2000 × 2400 × 850
	Weight	360 kg	550 kg	900 kg	1000 kg	1470 kg	1770 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					