



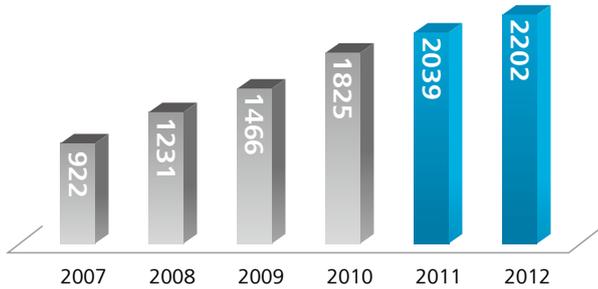
**Huawei UPS5000-A Series 30-120kVA
Uninterruptible Power Systems**

About Huawei Network Energy

Corporate Information

Huawei is a leading global ICT solutions provider. Through our dedication to customer-centric innovation and strong partnerships, we have established end-to-end capabilities and strengths across the carrier networks, enterprise, consumer, and cloud computing fields. Huawei is among the world top 500 enterprises, our products and solutions have been deployed in over 140 countries, serving more than one third of the world's population. There are total 155,000 employees working here.

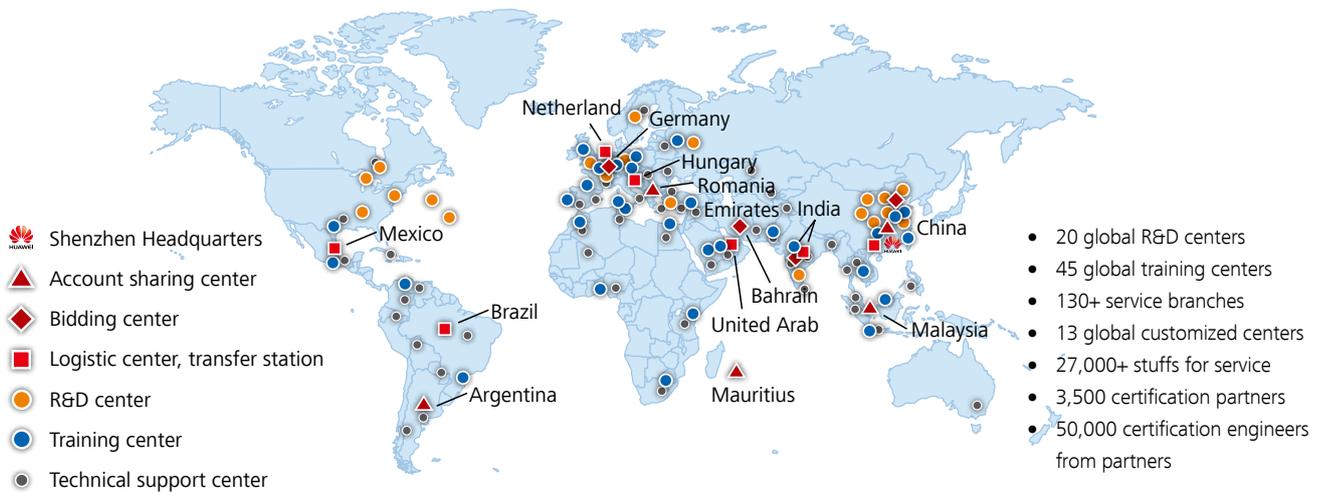
Sales revenue (CNY 0.1 billion)



Market & Management

- Leading global ICT solution provider
- Major contributor of telecom standard, first share of many products and solutions
- Create value for customers continuously for 20 years, grow steadily for 20 years
- Sales revenue reached CNY 220.2 billion in 2012
- Three BGs (carrier BG, enterprise BG, consumer BG) were founded in 2011, the enterprise BG and consumer BG grow fast and become two new and stable economic growth points of the group

Globalization, localization



San Diego
USA



Dallas
USA



Moscow
Russia



Bangalore
India



Stockholm/Goteborg
Sweden

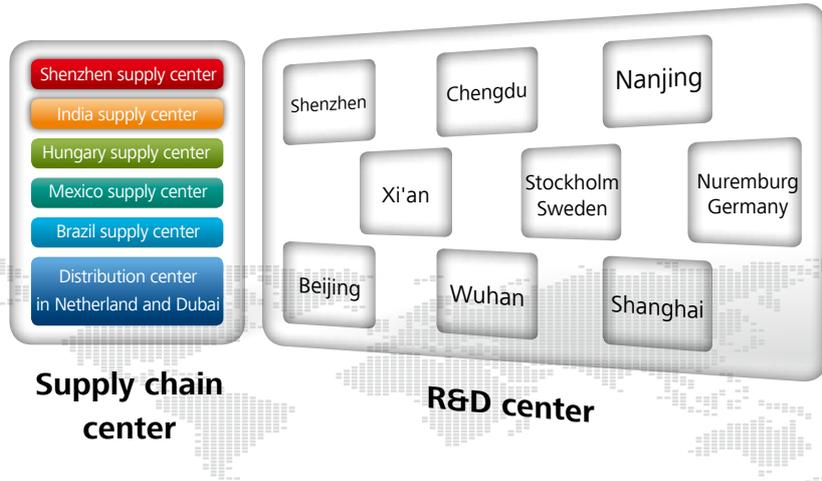


Munich
Germany

Huawei Network Energy

Network energy productline is one of four main productlines in Carrier BG. We are committed to help our customers build strong infrastructures for network and protect the long-term investment in energy infrastructure through providing efficient, reliable and intelligent network energy. Huawei network energy productline takes full advantage of the Global intellectual resources and 9 R&D centers have been set up at Germany (Nuremberg), Sweden (Stockholm) and China. As far as the end of 2012, network energy productline had filed 550+ patent applications and the sales revenue had reached 1 billion US dollars.

- Huawei 5000-E "Data Center Product Excellence Award"
- CommunicAsia "Green science and Technology Award"
- DCD Data Center "The blueprint Award"
- "Energy star" certification
- Deutsche Telekom "The best site design award"
- "Desktop cloud container data center" Uptime Institute TIER3 certification



Network Energy Product

Data center UPS & air conditioner



Site power



Hybrid power



Intelligent management system



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*Huawei Medium UPS Solution — **UPS5000-A Series***

Rack / Tower convertible to Minimize Footprint



>> UPS5000-A brief introduction

Rated Capacity: 30-120kVA

Rated Voltage: 380/400/415V AC

Rated Frequency: 50/60Hz

Input/output Wiring: 3Ph+N+PE

Topological Structure: Double Conversion Online UPS

>> UPS5000-A design concept

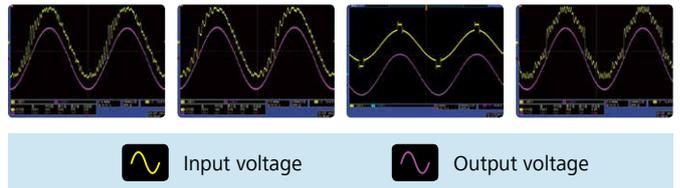
With the rapid development of IT technology, the power supply system requires high reliability and high efficiency. With the successful experience of communication equipment, Huawei provides reliable, efficient, convenient and intelligent UPS to customers.

UPS5000-A Features

Reliable and Saving

>> High reliability

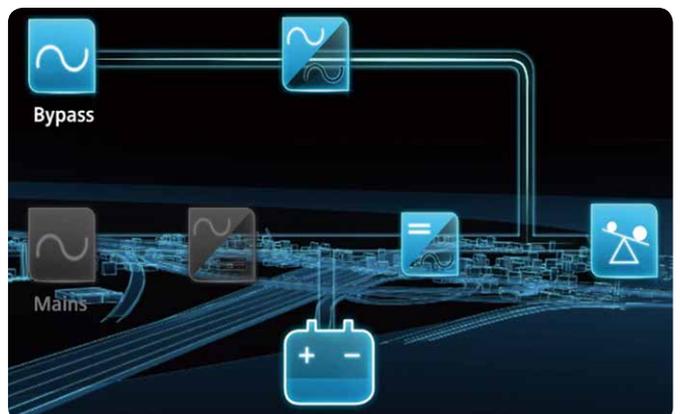
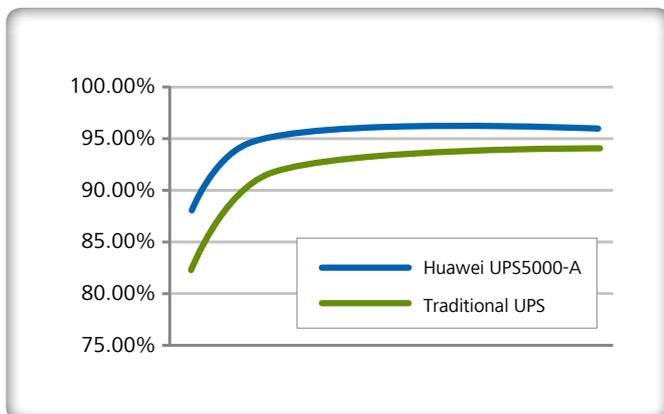
- Wide input voltage and frequency range: 138V to 485V AC (L-L), 40 Hz to 70 Hz, adapts to unstable grids and harsh environments; minimizes battery use and extends battery life
- 5kA /6kV lightning protection: reduces lightning-related failures
- Comprehensive reliability tests ensure reliable power



Lightning test	1,000 hours , 40°C	-40°C to 70°C HALT	Open field test
<p>5 kA lightning</p> <p>Rocket-triggered lightning</p>	<p>High temperature test</p> <p>THB Temperature: 40°C Humidity: 95%, 1,000h</p>	<p>Temperature shock sampling test</p> <p>LLT Long life test Temperature: 40°C, 6 months</p>	<p>Global Certification Test Center</p> <p>Shenzhen open field</p> <p>Hainan open field High temperature, dust, salt and fog</p>
Huawei UPS comprehensive reliability tests			

>> High efficiency

- High efficiency up to 95.7%, compared with the industry UPS, significantly reduces the loss by 50% and OPEX
- Input power factor > 0.99 and THDi < 3% significantly reduce pollution on the grid and breaker investment
- Eco-efficiency up to 99%: highly rated for resource efficiency



Friendly and Flexible

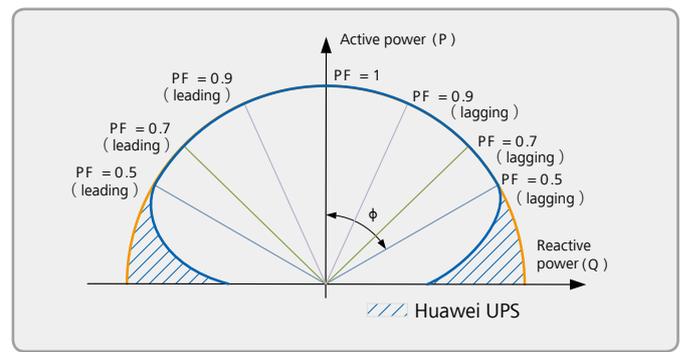
>> User-friendly LCD

- Displays real-time status
- Supports multiple languages
- Stores UPS history for easy lookups or inquiries



>> High output power factor up to 1

- Output power factor up to 1 and no derating for devices with a PF>0.5
- Ensures UPS to carry more loads by 30% , suitable for modern IT load
- Reduces customer investments



>> Rack/ Tower convertible

- Built-in handle for 30/40kVA, easy to install and carry
- Supports 19-inch rack installation, suitable for date centers



UPS5000-A Features

Convenient Monitoring

>> Supports various communication ports and protocols

Communication protocols

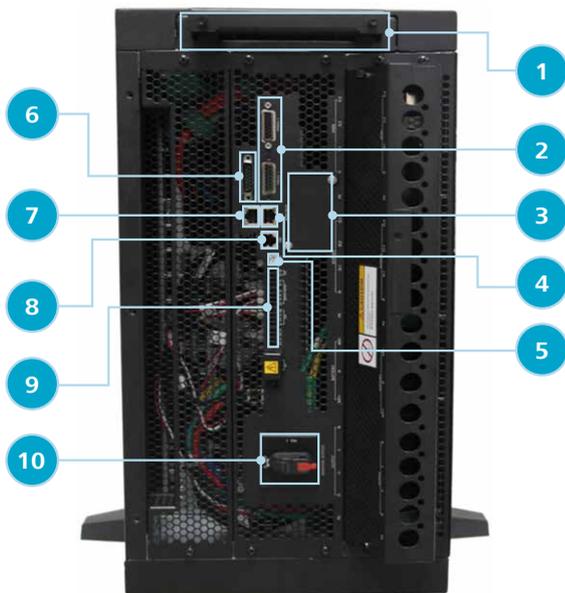
- SNMP protocol
- Modbus protocol

Communication ports

- RS485 port
- Dual-bus system communication port
- RJ45 port
- N+X parallel communication port
- Dry contact



>> The rear panel of UPS5000-A-30kVA/40kVA



- 1 Handle
- 2 Parallel ports
- 3 Optional card slot
- 4 RS485 port
- 5 Battery temperature sensor interface
- 6 BSC port
- 7 FE port
- 8 Ambient temperature and humidity sensor port
- 9 Dry contacts
- 10 Bypass unit ready switch

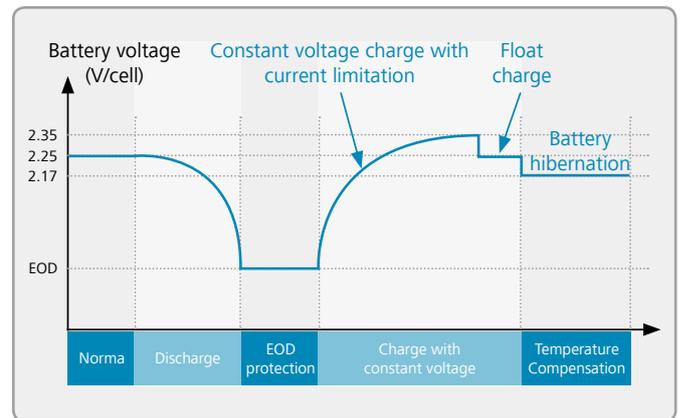


Easy Management

>> Intelligent battery management

Battery investment accounts for a large part of the UPS system. The weak battery management of traditional UPS will shorten the battery lifespan. UPS5000-A supports intelligent battery management:

- Temperature compensation function and automatic equalized and float charging conversion
- Automatic adjustment of discharge termination voltage according to the load and the backup time
- Intelligent battery hibernation extends battery lifespan

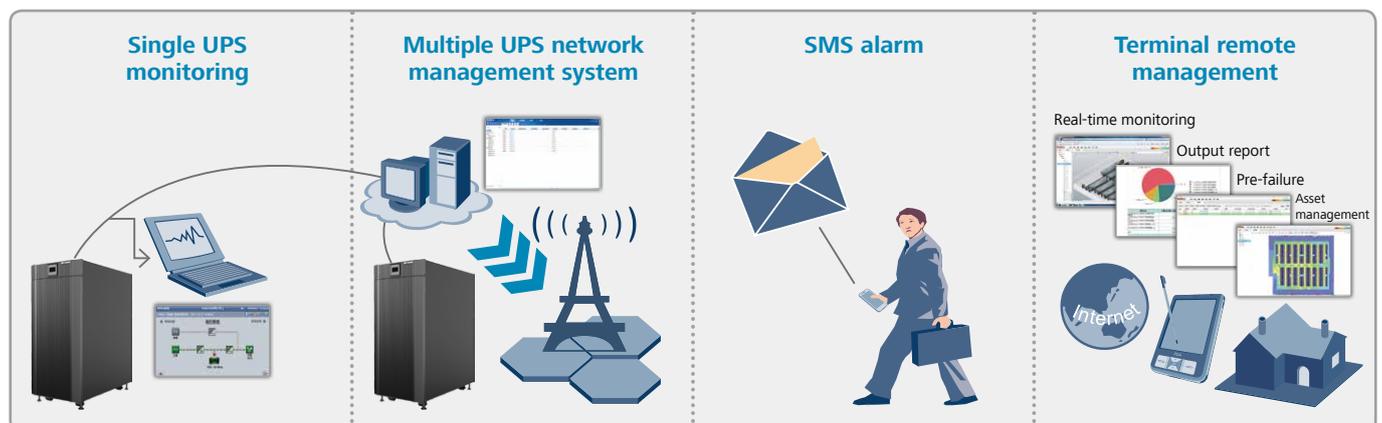


>> A Variety of Communication Interfaces

UPS5000-A supports Modbus, SNMP and other communication protocols. RS485, FE and dry contacts are Standard Configurations.

>> NetEco 1000U Monitoring Software

- Support NetEco 1000U management software which monitors UPS remotely.
- Remote alarm notification, such as E-mail and SMS.
- Support NetEco 6000 management software to realize the centralized monitor of data center.



Specifications

Model	UPS5000-A-30K	UPS5000-A-40K	UPS5000-A-60K	UPS5000-A-80K	UPS5000-A-120K
Capacity	30kVA/30kW	40kVA/40kW	60kVA/60kW	80kVA/80kW	120kVA/120kW
Input					
Mains	Rated Voltage	380/400/415Vac			
	Voltage Range	138-485Vac			
	Input Wiring	3Ph+N+PE			
	Rate Frequency	50/60Hz			
	Frequency Range	40-70Hz			
	Input Power Factor	0.99			
	Input THDi	≤3%			
Bypass	Rated Voltage	380/400/415Vac			
	Input Frequency	50/60 ± 6Hz			
	Input Wiring	3Ph+N+PE			
Battery	Rate Voltage	360 Vdc to 480 Vdc (Default 384 Vdc)			
Output					
Rated Voltage		380/400/415Vac ± 1%			
Frequency		Same as bypass input (Online Mode); 50/60Hz ± 0.1% (Battery Mode)			
Output Power Factor		1			
Waveform		THDv < 1%			
Output Wiring		3Ph+N+PE			
Efficiency		95.7%			
Overload Capacity		110% overload for 60 min; 125% overload for 10 min; 150% overload for 1 min			
Environmental					
Operating Temperature		0-40°C			
Storage Temperature		-40-70°C			
Relative Humidity		0%-95%(Non-condensing)			
Maximum Operating Altitude		1,000 m. Above 1,000 m, derating for IEC62040-3			
Audible Noise		≤58dB	≤64dB		
Others					
Parallel Capability		4			
Height x Width x Depth (mm)		500 × 264 × 800		1020 × 440 × 850	
Weight		70kg	200kg		240kg
Certifications		EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE			
Communications		Dry contacts、RS485、SNMP			



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