




Modular Design, Beyond Reliability
Huawei UPS Solutions



The rapid development of cloud technology is imposing ever stricter requirements on power supply – the very lifeblood for servers and switches. Ensuring reliable power supply, Huawei delivers reliable, efficient, and simple UPS to cope with the disadvantages of efficiency, expansion, and availability hindrances, as well as high maintenance costs that traditional UPS brings. Huawei UPS provides customers with the best power supply solution to help customers deal with the problems encountered on overburdened power grids.

Huawei UPS Design Concept

Reliable

By using state of art design and craftsmanship, Huawei UPS provides customers the comprehensive reliability assurance measures from power input, energy storage to power output, which ensures the safe operation to the end user.

Efficient

Combining optimized circuit topology, and high quality components, Huawei's full-range of UPSs offers you the high efficiency with low heat dissipation even in the low load condition, hence reducing the operating expenses effectively, while simultaneously ensuring uptime.

Simple

Thanks to the hot-swap design of power modules and bypass module, the system can be expanded and maintained easily. Moreover, Huawei provides comprehensive and customized solutions that can abate customers' work greatly.

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UPS2000-A Series
(1-10kVA)



UPS2000-G Series
(1-20kVA)



UPS5000-E Series
(25-800kVA)



UPS5000-S Series
(50-800kVA)

UPS2000-A Series

(1-3kVA)

Introduction

UPS2000-A series with a capacity ranging from 1kVA to 3kVA is an online double conversion power system that delivers continuous, high-quality AC Power. It's really a perfect power protection solution for small power scenarios.

Scenarios

- Small and medium enterprises, large enterprise branch offices, bank branches and other small data centers
- Networks, communications systems, automatic control systems and other precision equipment
- Family, office

Features

Reliable

- Wide input voltage range to minimize battery use
- Online double conversion power system provides continuous, high-quality AC Power

Efficient

- Efficiency up to 90%, reduce energy consumption, green and energy-saving
- Ultra small volume, compared to the traditional UPS system to save space

Simple

- LCD screen supports real-time monitoring and convenient operation
- Built-in battery, easy to use
- Enables quick and easy configuration of the UPS
- NetEco network manager, supporting centralized management to all the UPSs



UPS2000-A-1K/2K/3K

Specifications

Rated capacity (kVA/kW)		1kVA/0.8kW	2kVA/1.6kW	3kVA/2.4kW	
Input: Output		1-in: 1-out			
Mains Input	Input Wiring	L+N+PE			
	Rated Voltage	220/230/240VAC			
	Input Voltage Range	110-300VAC			
	Input Frequency Range	40-70Hz			
	Input Power Factor	0.99			
Bypass Input	Input Rated Voltage	220/230/240VAC			
	Input Voltage Range	174-264VAC			
	Input Frequency Range	47-53Hz / 57-63Hz			
Battery	Battery Voltage	Standard	24VDC	48VDC	72VDC
		Long Backup	36VDC	72VDC	96VDC
	Backup Time	Standard	>5 minutes @ 80% load		
		Long Backup	Depending on the capacity of external batteries		
Output	Output Wiring	L+N+PE			
	Output Connections	4 X IEC C13	6 X IEC C13	6 X IEC C13 + 1 X IEC C19	
	Rated Voltage	220/230/240VAC \pm 1%			
	Output Frequency	Tracking the bypass input (Normal mode); 50/60Hz \pm 0.05%			
	Output Power Factor	0.8			
	Waveform	Sinewave, THDv< 3%			
	System Efficiency	88%	89%	90%	
	Overload Capacity	\leq 110% overload for 10 minutes; \leq 130% overload for 1 minute; \leq 150% overload for 3 seconds			
Environment	Operating Temperature	0 to 40°C			
	Storage Temperature	-40 to +70°C (battery: -20 to +40°C)			
	Relative Humidity	0%–95% RH (no condensation)			
	Operating Altitude	0-1000m. Above 1000m, derating rate based on EN/IEC 62040-3			
	Audible Noise	<50dB			
Others	D x W x H (mm)	Standard	282 x 145 x 220	397 x 145 x 220	421 x 190 x 318
		Long Backup	282 x 145 x 220	397 x 145 x 220	397 x 145 x 220
	Weight (kg)	Standard	9.9	17.3	26.7
		Long Backup	4.8	7.6	8.2
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.			
	Communications	USB&RS232 (optional RS485/Dry contact/SNMP)			

UPS2000-A Series

(6-10kVA)

Introduction

UPS2000-A series (6-10kVA) is a tower-mounted, online double conversion power system that delivers continuous, high-quality AC Power. up to 96% efficiency at online mode for 6/10kVA models helps save 50% energy cost. It's really a perfect power protection solution for small power scenarios.

Scenarios

- Small and medium enterprises, large enterprise branch offices, bank branches and other small data centers
- Networks, communications systems, automatic control systems and other precision equipment
- Family, office

Features

Reliable

- Wide input voltage range to minimize battery use
- Key component failure pre-alarm including fans, batteries to remind customers to maintain before failure occurs
- Coating design & key device pin special protection enhance reliability

Efficient

- High efficiency of up to 96% at online mode for 6/10kVA reduces power loss of UPS and smart cooling product and saves customers more than 50% over less efficient models
- The output power factor is 0.9, high load capacity

Simple

- LCD screen supports real-time monitoring and convenient operation
- Built-in battery design provides you integrated solution and makes it especially applicable for space-scarce use
- 6kVA/10kVA Professional Edition supports 4 machines in parallel operation, built in maintenance bypass, easy to use
- The NetEco 1000U management system monitors UPSs in real time and allows users easy management, and operation
- Multiple remote monitoring: supports SMS, E-mail, etc
- NetEco network manager, supporting centralized management to all the UPSs



UPS2000-A-6K/10K

Specifications

Rated capacity (kVA/kW)		6kVA/5.4kW (Standard Version)	10kVA/9kW (Standard Version)	
Model		UPS2000-A-6KTTL-S	UPS2000-A-10KTTL-S	
Input: Output		1 phase input, 1 phase output		
Mains	Input Wiring	L+N+PE		
	Rated Input Voltage	220/230/240V AC		
	Input Voltage Range	80-280V AC		
	Input Frequency Range	50/60Hz ± 5Hz		
	Input power factor	≥ 0.99		
	Total Harmonic Distortion	Total Harmonic Distortion of current <3% at rated load		
Bypass Input	Input rated voltage	220/230/240V AC		
	Input frequency range	50/60Hz ± 5Hz		
Battery	Battery voltage	Standard	192V DC	192V DC
		Long backup	192-240V DC	192-240V DC
	Backup time	Standard	> 5 minutes at 80% rated load	> 4 minutes at 80% rated load
		Long backup	Depending on the capacity of external batteries	
Output	Output wiring	L+N+PE		
	Rated voltage	220/230/240V AC ±1%		
	Output frequency	Tracking the bypass input (Normal mode); 50/60Hz ± 0.05% (Battery Mode)		
	Output power factor	0.9		
	Waveform	Sine wave, THDv ≤ 2%		
System	Maintenance Bypass	No Built-in Maintenance Bypass		
	Expandability	---		
	Efficiency	96%		
	Overload capacity	≤125% overload for 5 minutes; ≤150% overload for 1 minute		
Environment	Operating Temperature	0°C to 40°C		
	Relative Humidity	0%–95% RH (no condensation)		
	Altitude	0-1000m. Above 1000m, derating rate based on EN/IEC 62040-3		
	Audible Noise	<50dB		
Others	Height×Width×Depth (mm)	580 x 250 x 605		
	Weight	Standard	60kg	67kg
		Long backup	20kg	21kg
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.		
	Communications	USB (optional RS485/Dry contact/SNMP)		

UPS2000-G Series

(1-3kVA)

Introduction

UPS2000-G series with a capacity ranging from 1kVA to 3kVA is an online double conversion power system that delivers continuous, high-quality AC Power. It's really a perfect power protection solution for small power scenarios. It's support tower and rack installation.

Scenarios

- Small and medium-sized enterprises, large enterprise branch offices, bank branches and other small data centers
- Networks, communications systems, automatic control systems and other precision equipment

Features

Reliable

- Wide input voltage range to minimize battery use
- Online double conversion power system provides continuous, high-quality AC Power

Efficient

- Efficiency up to 90%, reduce energy consumption, green and energy-saving
- Ultra small volume, compared to the traditional UPS system to save space

Simple

- LCD screen supports real-time monitoring and convenient operation
- Built-in battery, easy to use
- Enables quick and easy configuration of the UPS
- NetEco network manager, supporting centralized management to all the UPSs



UPS2000-G-1K/2K/3K

Specifications

Rated capacity (kVA/kW)		1kVA/0.8kW	2kVA/1.6kW	3kVA/2.4kW	
Input: Output		1-in: 1-out			
Mains Input	Input Wiring	L+N+PE			
	Rated Voltage	200/208/220/230/240VAC			
	Input Voltage Range	110-300VAC			
	Input Frequency Range	40-70Hz			
	Input Power Factor	0.99			
Bypass Input	Input Rated Voltage	200/208/220/230/240VAC			
	Input Frequency Range	50/60±3Hz			
Battery	Battery Voltage	Standard	24VDC	48VDC	72VDC
		Long Backup	36VDC	72VDC	96VDC
Output	Output Wiring	L+N+PE			
	Output Connections	4 X IEC C13	6 X IEC C13	6 X IEC C13 + 1 X IEC C19	
	Rated Voltage	200/208/220/230/240VAC ±1%			
	Output Frequency	Tracking the bypass input (Normal mode); 50/60Hz ± 0.05%			
	Output Power Factor	0.8			
	Waveform	Sinewave, THDv< 3%			
	System Efficiency	88%	89%	90%	
Environment	Operating Temperature	0 to 40°C			
	Storage Temperature	-40 to +70°C (battery: -20 to +40°C)			
	Relative Humidity	0%–95% RH (no condensation)			
	Operating Altitude	0-1000m. Above 1000m, derating rate based on EN/IEC 62040-3			
	Audible Noise	<50dB			
Others	D x W x H (mm)	Standard	88 × 438 × 310	88 × 438 × 410	88 × 438 × 630
		Long Backup	88 × 438 × 310	88 × 438 × 410	88 × 438 × 410
	Weight (kg)	Standard	11.1	18.8	28.9
		Long Backup	6.0	8.7	9.3
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.			
	Communications	USB&RS232(optional RS485/Dry contact/SNMP)			

UPS2000-G Series

(6-20kVA)

Introduction

UPS2000-G series with a capacity ranging from 6kVA to 20kVA is an online double conversion power system that delivers continuous, high-quality AC power. It is rack/tower convertible and 95% high efficiency helps it get ECA energy saving certification from United Kingdom government and the world's first batch of "Energy Star" certification. It's really a perfect power protection solution for small power scenarios.

Scenarios

- Small and medium-sized enterprises, large enterprise branch offices, bank branches and other small data centers
- Networks, communications systems, automatic control systems and other precision equipment

Features

Reliable

- 5kA lightning protection design, reducing lightning-related failure rate
- Key component failure pre-alarm including fans, batteries, bus capacitors to remind customers to maintain before failure occurs
- Ultra-wide voltage input range to extend battery service life by effectively reducing times of switchover to battery mode

Efficient

- High efficiency at online mode to reduce power loss of UPS and air conditioner: up to 95% for 15/20kVA, 94.5% for 10kVA, 94% for 6kVA

Simple

- Rack/tower convertible, suitable for different installation scenarios
- High expandability design: up to four units can be connected in parallel to achieve higher capacity or reliability
- NetEco network manager, supporting centralized management to all the UPSs



UPS2000-G-6K/10K



UPS2000-G-15K/20K

Specifications

Rated Capacity(kVA/kW)		6/5.4	10/9	15/13.5	20/18
Input: Output		1-in: 1-out	1-in: 1-out or 3-in: 1-out	1-in: 1-out, 3-in: 1-out or 3-in: 3-out	
Mains Input	Input Wiring	L+N+PE	L+N+PE /3Ph+N+PE		
	Rated Voltage	L-N: 220/230/240V AC			
	Input Voltage Range	L-N: 80-280V AC			
	Input Frequency Range	40-70Hz			
	Input Power Factor	0.99			
Bypass Input	Rated Voltage	L-N: 220/230/240V AC			
	Frequency	50/60 ± 6Hz			
Battery	Rated Voltage	Standard	240V DC		-
		Long Backup	192-240V DC		384-480V DC, 32-40 section adjustable, default 40
Output	Output Wiring	L+N+PE		L+N+PE /3Ph+N+PE	
	Output Sockets	2 × C13 (10A)	-		
	Rated Voltage	220/230/240V AC ±1%		L-N: 220/230/240V AC ±1%	
	Rated Frequency	Tracking the bypass input (Normal mode); 50/60 Hz±0.05% (Battery mode)			
	Output Power Factor	0.9			
	Waveform	Sine wave, THDv<2%			
	Efficiency	94%	94.5%	95%	
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	□55dB		□58dB	
Others	H × W × D (mm)	86 × 430 × 615		130 × 430 × 757	
	Weight	14kg	16kg	32kg	
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc			
	Communications	USB(optional RS485/Dry contact/SNMP)			

UPS5000-E Series

(25-75kVA Battery Integrated)

Introduction

UPS5000-E Battery Integrated Solution features the double-conversion online and modular design with pre-integrated battery module, fast on-site deployment & installation, intelligent management, unattended operation and simple O&M, thus providing customers with reliable, efficient and simple modular UPSs.



Power Module: 25kVA/2U

Scenarios

- Small-to-medium sized data centers
- Telecom and Internet switch computer rooms of small-to-medium sized enterprises
- Area network and communication equipment rooms
- Computer rooms of branch offices of industries like finance, etc

Features

Reliable

- Wide input voltage range from 138Vac to 485Vac to suit for worst grid and minimize battery use
- Dual-controller design to eliminate the single point of failure
- Redundant auxiliary power supply and fans
- Intelligent Battery Management: monitoring battery's temperature, early warning for failure, battery powered high reliability.

Efficient

- High efficiency of system up to 96%
- Intelligent hibernation technology to keep UPS operating at high efficiency
- All in one design, saving the area of 50%

Simple

- Modularized power, bypass, control and battery modules, fast installation and maintenance
- 7-inch colored LCD showing real-time operation status in various languages
- Various communication interfaces including dry contacts, RS485, Modbus etc.
- NetEco network manager, supporting centralized management to all the UPSs



Integrated Cabinet
25kVA-75kVA



Modular Battery Cabinet

Specifications

Model			UPS5000-E-(25-75kVA)-BF		
Capacity (kVA/kW)			25kVA/kW	50kVA/kW	75kVA/kW
Input	Mains	Rated Voltage	380/400/415Vac		
		Voltage Range	138 to 485Vac		
		Input Wiring	3Ph+N+PE		
		Frequency Range	40 to 70 Hz		
		Total Harmonic Distortion	<3% (100% linear load)		
		Input Power Factor	0.99		
	Bypass	Rated Voltage	380/400/415Vac		
		Frequency Range	50/60Hz (adjustable, 0.5 to 6Hz, ± 2 Hz by default)		
		Input Wiring	3Ph+N+PE		
Output	Rated Voltage	380/400/415Vac			
	Output Frequency	Tracking the bypass input (Normal mode); 50/60Hz $\pm 0.05\%$ (Battery mode)			
	Output Power Factor	1			
	Waveform	Sine wave; THDv<1% (linear load)			
	Output Wiring	3Ph+N+PE			
	System Efficiency	Up to 96%			
	Overload Capacity	$\leq 110\%$ overload for 60min; $\leq 125\%$ overload for 10min; $\leq 150\%$ overload for 1min			
Environment	Operation Temperature	0 to 40 °C			
	Storage Temperature	-40 to 70 °C			
	Relative Humidity	0% to 95% (No condensing)			
	Maximum Operation Altitude	0-1000m. Above 1000m, derating rate based on EN/IEC 62040-3			
	Noise	<65dB			
Others	System Expandability	4			
	Integrated Cabinet Power Backup	Standard configuration 2 to 4 groups of battery (8 to 16 battery modules)			
	Battery Cabinet (optional) Power Backup	Optional battery cabinet, 1 to 8 groups of battery (4 to 32 battery modules) per cabinet, max. 4 cabinets in parallels			
	Battery Module	Support battery or empty battery for battery module, battery typical configuration: 10 \times 12V 9Ah			
	Height \times Width \times Depth (mm)	2000 \times 600 \times 1100			
	Weight (full configuration)	890kg	910kg	930kg	
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.			
	Communication Interface/Protocol	Dry contacts, RS485, FE; Support SNMP, Modbus.			

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 TIERIII or TIER IV requirements stated in TIA942.

UPS5000-E Series

(25k-75k)-SM (1m High)

Introduction

UPS5000-E-75k-SM is the compact modular UPS which has a height of only 1m. It's compatible with rack mount. The modularized architecture helps improve the availability and reduce the engineering cost significantly.

Scenarios

- Enterprise small & medium data center
- Central offices, dispatch center, control center, etc.

Features

Reliable

- 138-485Vac ultra-wide input voltage range, adopt for harsh grid and extend battery life
- Optional redundant design, power modules N+1
- Pre-warnings for key components like fans and electrolytic capacitor

Efficient

- High efficiency up to 96% at most frequently-used load rate, reducing power consumption of UPS and cooling system
- Intelligent hibernation technology ensures high efficiency at light load rate

Simple

- Hot swappable power module, simple maintenance and expansion in 5 minutes
- iPower real time monitoring system for UPS, PDU and batteries, elimination of manual routing inspection



Appearance



25kVA@2U

Specifications

Model		UPS5000-E-(25-75kVA)-BF		
Rated Capacity (kVA/kW)		25kVA/kW	50kVA/kW	75kVA/kW
Number of Power Modules		1-2	2-3	3-4
Main's Input	Input Wiring	3Ph+N+PE		
	Rated Voltage	380/400/415Vac		
	Voltage Range	138-485Vac		
	Input Frequency	40-70Hz		
	Total Harmonic Distortion	THDi<3% for 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; 32 batteries in default)		
Output	Output Wiring	3Ph+N+PE		
	Voltage	380/400/415Vac±1%		
	Frequency	Tracking the bypass input (Normal mode); 50/60Hz±0.05% (Battery mode)		
	Waveform	Sine wave (THDv<1% for linear load)		
	Output Power Factor	1		
	Overload Capacity	Inverter: 110% overload for 60minutes;125% overload for 10 minutes;150% overload for 1 minute;		
	Efficiency	Up to 96%		
	Expandability	4		
Environment	Operating Temperature	0-40°C		
	Storage Temperature	-40-70°C		
	Relative Humidity	0%-95% (Nocondensing)		
	Operating Altitude	0-1000m. Above 1000m, derating rate based on EN/IEC 62040-3		
	Noise	64dB		
Others	Height×Width×Depth(mm)	1020×440×850		
	Weight	148kg	168kg	188kg
	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 TIERIII or TIER IV requirements stated in TIA942.

UPS5000-E Series

(25-125kVA)

Introduction

Based on the online double conversion technology, UPS5000-E series (25-125kVA) can provide reliable, pure and uninterrupted power for critical ICT equipment. The modularized architecture helps improve the availability and reduce the engineering cost significantly.

Scenarios

- Small & medium data center, large enterprise regional datacenter
- Central offices, dispatch center, control center, etc.

Features

Reliable

- 138-485Vac ultra-wide input voltage range, suitable for the worst power grid
- Redundant design for modules, elimination of the single point of failure
- iPower pre-warnings for key components in case of power supply interruption

Efficient

- High efficiency up to 96% at most frequently-used load rate, reducing power consumption of UPS and cooling efficiency
- Intelligent hibernation technology ensures efficient UPS operation

Simple

- Hot swappable power module, bypass module and control module, simple maintenance and expansion in 5 minutes
- iPower real time monitoring system for UPS, PDU and batteries, elimination of manual routing inspection



25kVA Power Module @ 2U



UPS5000-E-125K-FM

Specifications

Model		UPS5000-E-125K-FM				
Rated Capacity (kVA/kW)		25kVA/kW	50kVA/kW	75kVA/kW	100kVA/kW	125kVA/kW
Number of Power Modules		1	2	3	4	5
Mains Input	Input Wiring	3Ph+N+PE				
	Rated Voltage	380/400/415Vac				
	Voltage Range	138-485Vac				
	Input Frequency	40-70Hz				
	Total Harmonic Distortion	THDi<3% for 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; 32 batteries in default)				
Output	Output Wiring	3Ph+N+PE				
	Voltage	380/400/415Vac±1%				
	Frequency	Tracking the bypass input (Normal mode); 50/60Hz±0.05% (Battery mode)				
	Waveform	Sine wave (THDv<1% for linear load)				
	Output Power Factor	1				
	Overload Capacity	Inverter: 110% overload for 60 minutes; 125% overload for 10 minutes; 150% overload for 1 minute				
	Efficiency	Up to 96%				
	Expandability	4				
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				
Others	Height×Width×Depth (mm)	2000 × 600 × 850				
	Weight	250kg	270kg	290kg	310kg	330kg
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.				
	Communication Interface/Protocol	Dry contacts, RS485, FE; Support SNMP, Modbus.				

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 TIERIII or TIER IV requirements stated in TIA942.

UPS5000-E Series

(50-800kVA)

Introduction

UPS5000-E Series (50-800kVA) is an advanced modular UPS based on Huawei's extensive experience in digital technology and power electronics. Benefiting from high performance DSP and high speed communication technology, the UPS5000-E system achieves leading expandability and availability. Its high efficiency, high availability match the requirements of cloud data center perfectly.

Scenarios

- Data centers in headquarter or disaster recovery data centers
- Internet data centers
- Large cloud computing data centers

Features

Reliable

- 138-485Vac ultra-wide input voltage range, suitable for the worst power grid
- Redundant design for modules, elimination of the single point of failure
- iPower pre-warnings for key components in case of power supply interruption

Efficient

- High efficiency up to 95%-96% at most frequently-used load rate
- Intelligent hibernation technology ensures efficient UPS operation
- Single UPS capacity up to 800kVA, 50% footprint saving, more IT rack space

Simple

- Hot swappable power module, bypass module and control module, simple maintenance and expansion in 5 minutes
- iPower real time monitoring system for UPS, PDU and batteries, elimination of manual routing inspection



UPS5000-E-200/300K



UPS5000-E-400/500K

Specifications

Model		UPS5000-E-200K	UPS5000-E-300K	UPS5000-E-400K	UPS5000-E-500K	UPS5000-E-600K	UPS5000-E-800K
Rated Capacity (kVA/kW)		50-200	50-300	50-400	50-500	50-600	50-800
Number of Power Modules		1-4	1-6	1-8	1-10	1-12	1-16
Mains Input	Input Wiring	3Ph+PE (Neutral wire: optional*)					
	Rated Voltage	380/400/415Vac					
	Voltage Range	138-485Vac (305-485Vac for 100% load; 138-305Vac for 40%-100% load)					
	Frequency Range	40-70Hz					
	Total Harmonic Distortion	THDi<3% for 100% linear load					
	Input Power Factor	0.99					
Bypass Input	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; 40 batteries in default)					
Output	Output Wiring	3Ph+N+PE					
	Voltage	380/400/415Vac±1%					
	Frequency	Tracking the bypass input (Normal mode); 50/60Hz±0.05% (Battery mode)					
	Waveform	Sine wave (THDv<1% for linear load)					
	Overload Capacity	Inverter: 110% overload for 60 minutes; 125% overload for 10 minutes; 150% overload for 1 minute					
System	Output Power Factor	1					
	Efficiency	Up to 96%					
	Expandability	8					
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	66-75dB					
Others	Height × Width × Depth (mm)	2000 × 600 × 850		2000 × 1200 × 850		2000 × 1400 × 850	2000 × 2400 × 850
	Weight	285-390kg	275-450kg	465-710kg	515-830kg	705-1090kg	1075-1540kg
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.					
	Communication Interface/Protocol	Dry contacts, RS485, FE; Support SNMP, Modbus.					

* Without neutral wire, it's TN-C system.

Notice:

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2. The critical systems concerning economic and public security must adopt power supply architecture that comply with Uptime TIERIII or TIER IV requirements stated in TIA942.

UPS5000-E Series

(60-600kVA, 60kVA Power Module)-SMS/FMS

Introduction

UPS5000-E series (60-600kVA, 60kVA Power Module)-SMS/FMS is a high performance modular UPS comprising of 3U 60kVA power modules. It has leading performance in the industry and delivers reliability, efficiency, simplicity and intelligence to the customer. These features meet the power supply needs of large data centers in the cloud computing era.

Scenarios

- Data centers in headquarter or disaster recovery data centers
- Internet data centers
- Large cloud computing datacenters
- Large IT device and manufacture device
- Public safety system and E-government system

Features

Reliable

- 138-485Vac ultra-wide input voltage range, suitable for the worst power grid
- Redundant design for modules, elimination of the single point of failure
- iPower pre-warnings for key components in case of power supply interruption

Efficient

- High efficiency up to 96% at most frequently-used load rate
- Intelligent hibernation technology ensures efficient UPS operation
- Single power module capacity up to 60kVA/54kW. Single UPS capacity up to 600kVA/540kW, 50% footprint saving, more IT rack space

Simple

- Hot swappable power module, bypass module and control module, simple maintenance and expansion in 5 minutes
- iPower real time monitoring system for UPS, PDU and batteries, elimination of manual routing inspection



400kVA/500kVA-SMS/FMS



600kVA-SMS/FMS

Specifications

Model		UPS5000-E-400K-SMS	UPS5000-E-400K-FMS	UPS5000-E-500K-SMS	UPS5000-E-500K-FMS	UPS5000-E-600K-SMS	UPS5000-E-600K-FMS
Rated Capacity (kVA)		400	400	500	500	600	600
Number of Power Modules		1-7	1-7	1-9	1-9	1-10	1-10
Mains Input	Input Wiring	3Ph+N+PE					
	Rated Voltage	380/400/415Vac					
	Input Voltage Range	0-30°C: 324-485Vac for 100% load; 138-324Vac for 35%-100% load 30-40°C:343-485Vac for 100% load; 138-343Vac for 35%-100% load					
	Input Frequency Range	40-70Hz					
	Input Power Factor	0.99					
Bypass Input	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; 40 batteries by default)					
Output	Output Wiring	3Ph+N+PE					
	Voltage	380/400/415Vac±1%					
	Frequency	Tracking the bypass input (Normal mode); 50/60Hz±0.05% (Battery mode)					
	Waveform	Sine wave (THDv<1% for linear load)					
	Overload Capacity	105%<Load≤110%, 60min; 0-30°C, 110%<Load≤125%, 10min; 30-40°C, 110%<Load≤125%, 3min; 125%<Load≤150%, 30s; Load > 150%:200ms					
	Output Power Factor	0.9					
System	Efficiency	Up to 96%					
	Expandability	≤8					
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	62dB @50%Load			63dB @50%Load		
Others	Height × Width × Depth (mm)	2000×1200×850				2000×1200×850	
	Weight at rated capacity (kg)	640	680	780	800	975	1025
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc					
	Communication Interface/Protocol	Dry contacts, RS485, FE; Support SNMP, Modbus.					

Notice:

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UPS5000-S Series

(50-800kVA)

Introduction

UPS5000-S Series (50-800kVA) is an advanced modular UPS based on Huawei's extensive experience in digital technology and power electronics. Benefiting from high performance DSP and high speed communication technology, the UPS5000-S system achieves leading expandability and availability. Its high efficiency, high availability match the requirements of cloud data center perfectly.

Scenarios

- Data centers in headquarter or disaster recovery data centers
- Internet data centers
- Large cloud computing data centers

Features

Reliable

- 138-485Vac ultra-wide input voltage range, suitable for the worst power grid
- Redundant design for modules, elimination of the single point of failure
- iPower pre-warnings for key components in case of power supply interruption

Efficient

- High module efficiency up to 97.5% and system efficiency up to 96%-97% at most frequently-used load rate
- Intelligent hibernation technology ensures efficient UPS operation
- Single cabinet power capacity up to 600kVA, 50% footprint saving, more IT rack space

Simple

- Hot swappable power module, bypass module and control module, simple maintenance and expansion in 5 minutes
- iPower real time monitoring system for UPS, PDU and batteries, elimination of manual routing inspection



Power Module: 50kVA/3U & 97.5% efficiency



UPS5000-S-200kVA



UPS5000-S-200/300kVA



UPS5000-S-400/500kVA



UPS5000-S-600kVA



UPS5000-S-800kVA

Specifications

Model		UPS5000-S-200K	UPS5000-S-300K	UPS5000-S-400K	UPS5000-S-500K	UPS5000-S-600K	UPS5000-S-800K
Rated Capacity (kVA/kW)		50-200	50-300	50-400	50-500	50-600	50-800
Number of Power Modules		1-4	1-6	1-8	1-10	1-12	1-16
Mains Input	Input Wiring	3Ph+PE					
	Rated Voltage	380/400/415Vac					
	Voltage Range	138-485Vac (305-485Vac for 100% load; 138-305Vac for 40%-100% load)					
	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	384-600Vdc (The number of batteries can be selected from 32 to 50; 40 batteries in default)					
Output	Output Wiring	3Ph+N+PE					
	Voltage	380/400/415Vac±1%					
	Frequency	Tracking the bypass input (Normal mode); 50/60Hz±0.1% (Battery mode)					
	Waveform	Sine wave (THDv<1% for linear load)					
	Overload Capacity	Inverter: 110% overload for 60 minutes; 125% overload for 10 minutes; 150% overload for 1 minute					
System	Output Power Factor	1					
	Efficiency	Up to 97.1%					
	Expandability	8					
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	66-75dB					
Others	Height×Width×Depth(mm)	2000 × 600 × 850		2000 × 1200 × 850		2000 × 1400 × 850	2000 × 2400 × 850
	Weight	225-354kg	251-416kg	462-693kg	648-945kg	709-1072kg	1061-1556kg
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.					
	Communication Interface/Protocol	Dry contacts, RS485, FE; Support SNMP, Modbus.					

Notice:

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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

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% 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; 32 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	110% overload for 60 minutes; 125% overload for 10 minutes; 150% overload for 1 minute				
System	Output Power Factor	0.9~60/120kVA; 1~30/40/80kVA				
	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		200kg		240kg
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.				
	Communications	Dry contacts, RS485, SNMP				

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

Reliable

- Wide input voltage range to minimize battery use: 485-305 V for 100% load; 305-138 Vac for 100%-40% load (derating linearly)
- Better load adaptability: high output power factor up to 1 and no derating for capacitive or inductive devices with a PF>0.5

Efficient

- High efficiency of up to 96%, reducing power consumption effectively
- High power density of up to 300kVA per rack, 50% footprint saving compared with traditional UPS

Simple

- Flexible battery configuration: 30-44 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/400kW	500kVA/500kW	600kVA/600kW	800kVA/800kW
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; 40 batteries in default)					
Output	Output Wiring	3Ph+N+PE					
	Rated Voltage	380/400/415 Vac±1%					
	Frequency	Tracking the bypass input (Normal mode); 50/60 Hz±0.05% (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	96%					
	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	66-75dB					
Others	Height×Width×Depth (mm)	2000 × 600 × 850		2000 × 1200 × 850		2000 × 1400 × 850	2000 × 2400 × 850
	Weight	370kg	450kg	710kg	850kg	1100kg	1610kg
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.					
	Communication Interface/Protocol	Dry contacts, RS485, FE; Support SNMP, Modbus.					

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FusionPower Series

(UPS5000-S-1200kVA-FP)

Introduction

UPS5000-S-1200kVA-FP which belongs to FusionPower series solution is an advanced power supply solution integrate modular UPS, input PDU and output PDU. The system adopts UPS5000-S which achieves high efficiency, the module efficiency is up to 97.5% and system efficiency is up to 97%. This integrated solution can save more space for customers and its high efficiency, high availability match the requirements of data center perfectly.

Scenarios

- Data centers in headquarter or disaster recovery data centers
- Internet data centers
- Large cloud computing data centers

Features

Reliable

- 138-485Vac ultra-wide input voltage range, suitable for the worst power grid
- Redundant design for modules, elimination of the single point of failure
- iPower pre-warnings for key components in case of power supply interruption

Efficient

- High module efficiency is up to 97.5% and system efficiency is up to 96.5%-97% at most frequently-used load rate
- Integrated power solution saves 40% footprint
- Installation labor hours reduced by 60%

Simple

- Hot swappable power module, bypass module and control module, simple maintenance and expansion in 5 minutes
- iPower real time monitoring system for UPS, PDU and batteries, elimination of manual routing inspection



Power Module: 55kVA/3U & 97.5%



UPS5000-S-1200kVA-FP

Specifications

Model		UPS5000-S-1200kVA-FP
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; 40 batteries in default)
Output	Output Wiring	3Ph+N+PE
	Rated Voltage	380/400/415 Vac±1%
	Frequency	Tracking the bypass input (Normal mode); 50/60 Hz±0.05% (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 97%
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
Others	Height×Width×Depth (mm)	2200*2800*1000
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.
	Communication Interface/Protocol	Dry contacts, RS485, FE; Support SNMP, Modbus.

Modular Precision Power Distribution Cabinet PDU8000

Introduction

The Precision Power Distribution Cabinet provides power distribution, electrical parameters measurement and risk pre-alarm functions to match the reliable operation of data center.

Scenarios

- Large data centers
- Disaster recovery data center
- Enterprise data centers

Features

Reliable

- A full range of type tests, environmental tests and 9 intensity seismic tests to ensure high reliability
- Intelligent risk management, 24 hours key node temperature real-time detection
- Modular design, standardized production, fully automated testing to ensure product reliability

Simple

- The monitoring module and the output switch can be hot-swappable, which is easy to expand and maintain
- 7 inch LCD color touch screen, visual intelligent detection, simple management



Specifications

Items	Precision PDC (Standard)
Parameter	
Rated Voltage	208/380/400/415
Rated current (A)	160/250/400/630(optional)
Rated frequency (Hz)	50/60
Total Harmonic Distortion	THDi<3% for 100% linear load
Input switch	MCCB
Bus architecture	Dual buses or single bus(optional)
Outputs	Max. 144 1-pole MCBs or 48 3-pole MCBs (optional)
Rated current of outputs(A)	10/16/20/32/40/63 (optional)
Ingress Protection	IP20
Surge protection	level-C SPD (In=20kA)
Cabling route	from the top
Maintenance	Front operation and rear maintenance
Monitoring Function	
Monitoring Function	Monitoring the voltage, current, power, power factor, harmonic etc. of the main circuit Monitoring the current, load ratio, active power, switch status etc. of the branch circuit
Communication	Modbus , SNMP
Environment	
Operating Temperature	-5°C to +40°C
Storage Temperature	-40 to 70°C
Relative Humidity	5%–95% (No condensation)
Altitude	2000 m, derated when the altitude exceeds 2000 m
Others	
Dimensions (WxDxH) (mm)	600×1100×2000-600×1200×2000-600×1200×2200
Installation	Floor-mounted
Weight	< 380 kg
Certification	CCC, CE, TLC

iBattery Intelligent Management Solution

Product Introduction

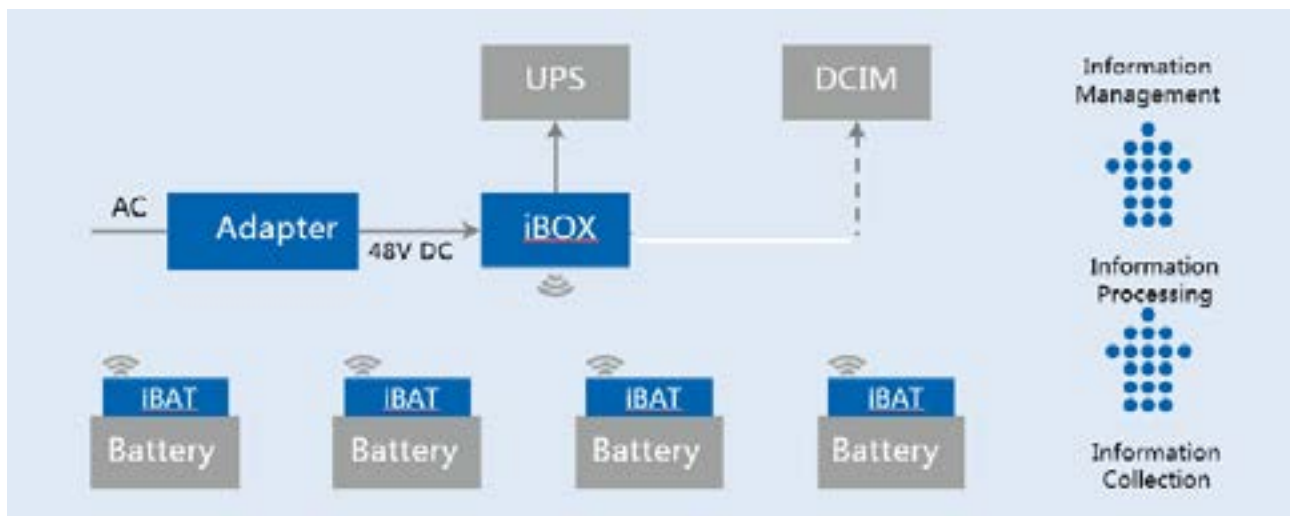
iBattery is an intelligent battery management system based on wireless transmission. It can perform real-time detection of core parameters including voltage, current, temperature and internal resistance. Besides, through the linkage with Huawei UPS system, it can, by effectively identifying the SOH, provide automatic shutdown of battery group in an emergency so as to keep stable and reliable operation of the backup power system.

Application Scenario

Operation with Huawei UPS or NetEco, applicable to:

- 12V valve regulated lead acid battery
- 2V valve regulated lead acid battery

Typical Networking Diagram



Features & Values



Real-time detection, manual routing detection eliminated



Real-time calculation of SOH, automatic identification of weak cells



Linkage with UPS, automatic shutdown in case of emergent fault



Wireless connection, easy deployment

iBox Technical Specifications



iBOX

- Support 4 pieces in parallel
- Single iBox supports 300 iBats access
- Support automatic identification of weak cells
- Linkage with UPS, automatic shutdown in case of emergent fault (fire)

Type	iBox
iBat Access No.	300
Current Detection Precision	1%
Current Detection Input No.	8
SOC, SOH Detection Precision	±10%
DI/DO Interface	1 DI, 1 DO
Power Supply	12V or 48V or POE
Southbound Communication Protocol	Zigbee
Northbound Communication Protocol	SNMP, modbus TCP, modbus RTU
Dimensions (H*W*D)	180mm×116mm×43.6mm
Weight	<0.45kg
Operating environment	-20 to 65°C

iBat Technical Specifications



12V iBAT



2V iBAT

- "0" consumption, power supplied by battery
- Accurate detection for cell voltage, temperature, internal resistance
- Wireless connection, high reliability, easy expansion



Type	2V iBat	12V iBat
Single voltage measurement range	1.5V to 2.5V	9V to 15V
Single internal resistance measurement range	0.1 to 20mΩ	1.5mΩ to 100mΩ
Pole temp. measurement range	-20 to 125°C	
Voltage detection precision	±0.2%	
Pole temp. detection precision	±0.5°C	
Internal resistance detection precision	2%±0.01mΩ	
Communications Mode	Zigbee	
Normal operation power consumption	<0.5W	
Current at low power consumption mode	<350uA	150uA
Poor connection of battery power cable	Yes	
Dimensions (H*W*D)	80mm×44.4mm×22.2mm	
Weight	<0.1kg	
Operating environment	-20 to 65°C	



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