

HD Series Specification

Capacity	1000VA	1500VA	2000VA	3000VA	4000VA	5000VA
Power Watt	800W	1200W	1600W	2400W	3200W	4000W
Work Mode	Low Frequency Line Interactive					
Voltage Regulation Function	Adopt Relay smart multi-gear adjusting voltage					
Output Voltage Regulation Precision	±5%					
INPUT						
Phase	Single Phase (P+N+PE)					
Input Rated Voltage	100/110/120VAC Or 220/230/240VAC (According to Users' Voltage Standard)					
Input Voltage Range	±25%					
Input Rated Frequency	50/60Hz [Self-adaptive]					
Input Frequency Range	±5%					
BATTERY						
Voltage	24VDC		48VDC			
Charging Mode	Three-stage Intelligent Battery Charging					
Float Charging Voltage	27VDC					
Equalized Charging Voltage	28.2VDC		56.4VDC			
Temperature Compensated Voltage	3mV/ °C /cell					
Charging Power	Rated Capacity* 20%					
OUTPUT						
Phase	Single Phase (P+N+PE)					
Nominal Voltage	Equal to Input Rated Voltage					
Inverter Output Voltage	100/110/115/127V ; 220/230/240V (According to users' Voltage standard)					
Inverter Output Degree of Stability	±1%(steady load) , ±3% [fluctuation of load]					
Inverter Frequency Degree of Stability	50Hz, 60Hz←±0. 5%					
Crest Factor	→3:1					
Inverter Output THD	Pure sine wave, Linear load←3%, non-linear load←5%					
Transfer time	←5ms					
PROTECTION						
Overload protection	Overload Level		Utility Power Mode		Battery Mode	
	105~125%		→10mins		→1mins	
	125~150%		→1mins		Immediate Protection	
	→150%		Immediate Protection			
Input Protection	Voltage, Frequency Ultralimit Protection					
Output Protection	Over Current, Short Circuit Protection					
Battery Protection	Overcharging, Short Circuit Protection					
Temperature Protection	Over-temperature Protection					
Hardware Fault Protection	Fuse over current Protection, Surge Voltage Protection					
Alarm Function	Audio Alarm					
System Parameters						
Work Temperature	Temperature: 0~40 , Relative humidity: 30%~90% , Altitude < 2000m (power reduce 1% every 100M raised, 4000M utmost)					
Cooling Method	Forced ventilation					
Communication interface	RS232 [Optional USB, SNMP card]					
Protection Level	IP30					
Safety Performance	I/O on ground resistance {3000VAC}, stray current less than 3.5mA, insulation resistance exceeding 2MΩ(500VDC)					
Tower Type Dimension [W*H*D] mm	145*225* 360		195*345*460		195*445*500	
Rack-mounted Type Dimension [W*H*D] mm	482*88*300		482*133*400		482*222*450	

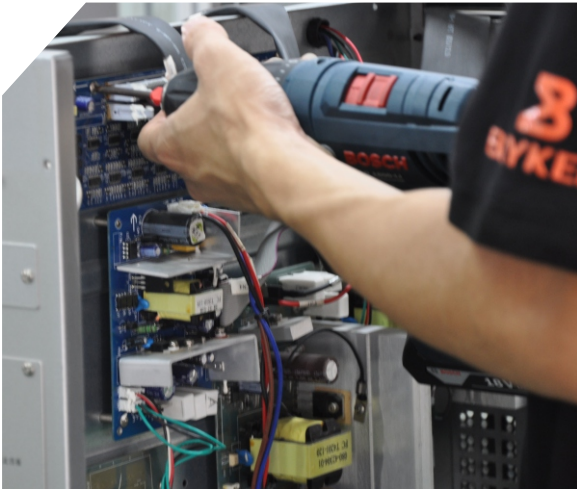
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HW Series
(Online Outdoor UPS)



HW Series Brief

HW series online outdoor base station special UPS, is the global newest period control component and more advanced software perfect combine full intelligent digital product. That series product uses the six generator low-loss large power IGBT and static switch to be power component, it fully adopt digital control technique with available online programmable high speed microprocessor(MCU), and it is the perfect performance in digital electric technique. HW series UPS capacity range from 1KVA-3KVA, can extend to 20KVA, with 100% suitable grid environment, widely used in communication industry, outdoor communicate station.



Main Features

- Advanced digital electric system super stable operation.
- Battery intelligent management, durable and free from worry, extend usage of battery over 55%.
- Intelligent detection system whole protection
- Intelligent communicate tool remote control: RS232 and RS485, optional SNMP card or dry contacts.
- Adopt high precision SMD technique, whole machine highly precision.
- Basic with life period evaluate precise research, more save energy.
- Basic on six generation IGBT and high speed static switch transform technique, high reliability.
- Super LED & LCD screen information processing technology, no restrict between user and UPS.
- Super adapt to the reliability of the environment: characteristic under a harsh environment, stronger waterproof, dustproof, antifreeze, heat insulation and function makes it more reliable safety.
- Super load characteristics: suitable from 0%-100% load jumping, and no need to changed to bypass, and protect output stable.
- Perfect protection function.
- Optional battery circuit module.
- Optional input harmonic filter.
- Personalized Settings: can choose UPS working patterns, ECO energy conservation work patterns, EPS work patterns.

HW Series Specification

MODEL		HW-1K	HW-2K	HW-3K
Capacity		1kVA	2kVA	3kVA
Power Watt		0.8kW	1.6kW	2.4kW
Working Principle		Low Frequency Transformer Based True On Line-Double Conversion		
RECTIFIER (INPUT)	Phase	Single Phase		
	Input Voltage Range	220VAC (230VAC or 240VAC)±25% , 1P+N+PE		
	Input Frequency Range	50Hz±10% / 60Hz±10% (Selectable)		
	Output Ripple	≤2%		
	Soft Start	0~100% 5sec		

CHARGING	Charging Mode	Constant current, then constant voltage, and charge with temperature compensation		
	Float Charging Voltage	55VDC		
	Equalized Charging Voltage	56.8VDC		
	Temp. Compensated Voltage	-3mV/ °C/cell		
	Charging Current	5-10A		
BATTERY	Type	VRLA/AGM/Gel, optional Lithium Battery		
	Battery Capacity	7 ~ 200AH settable (Configure Battery Capacity according to Back-up Time)		
	Quantity	4units 12V or 24units 2V batteries (Battery Voltage 48VDC)		
	Temperature	20°C~25°C (For Maximum Efficiency)		
INVERTER (OUTPUT)	Phase	Single Phase		
	Nominal Voltage	220VAC (230VAC or 240VAC), 1P + N		
	Output Voltage Regulated Accuracy	±1 % (Stable load), ±3% (fluctuant load)		
	Output Frequency Range	50Hz 60Hz≤±0.5% (Asynchronous)		
	Crest Factor	→ 3:1		
	Output Total Harmonic Distortion [THD]	Pure Sine Wave, Linear Load ≤ 3%, Non-Linear Load≤5%		
	Dynamic Characteristics	Instant voltage≤±5% (from 0 to100%), Instant recover time≤10ms		
	Overload Capacity	At 115% load, normal work, At 125% load 10 min, At 150% load 1min		
	Inverter Efficiency	→93% (full load)		
BYPASS	Phase	Single Phase (P+N)		
	Nominal Voltage	220VAC (230VAC or 240VAC)		
	Transfer Time	0ms (adopt static switch)		
PROTECTION FUNCTION	Input Protection	Input voltage, frequency over limited protection		
	Output Protection	Over current, short circuit, over voltage, low voltage		
	Battery Protection	Over charge, over-discharge protection		
	Temperature Protection	Environment over temperature protection, inverter over temperature protection		
	Hardware Fault Protection	Assistant power abnormal, breaker cut off, breaker overload, power devices over current/over voltage etc. protection		
GENERAL SYSTEM PARAMETERS	Working Environment	Temp: -25 ~ 55°C, relative humidity: 30% ~ 90%, Altitude≤2000m (1% decrease against 100 meters' rise, Max. altitude 4000m)		
	Cooling Method	COMPULSIVE VENTILATION		
	Communitation Interface	RS232/ RS485, optional dry contact, SNMP card (for remote control via internet)		
	Anti-surge Capacity	10/700 S, 5KV; 8/20 S, 20KA		
	Protection Level	IP43		
	Safety Performance	Vin-n Vout-n 2000Vac, creepage≤10mA , insulating resistance→2M Ω (500VDC)		
	Noise [dB]	45~50		
	Dimension (W*D*H) mm	890*640*1250 (Max. built-in 8PCS12V100Ah Batteries		
	Weight (Kg)	105	115	135
		※100V-110V-120V Version is available		

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HW-L Series

(Line Interactive Outdoor UPS)



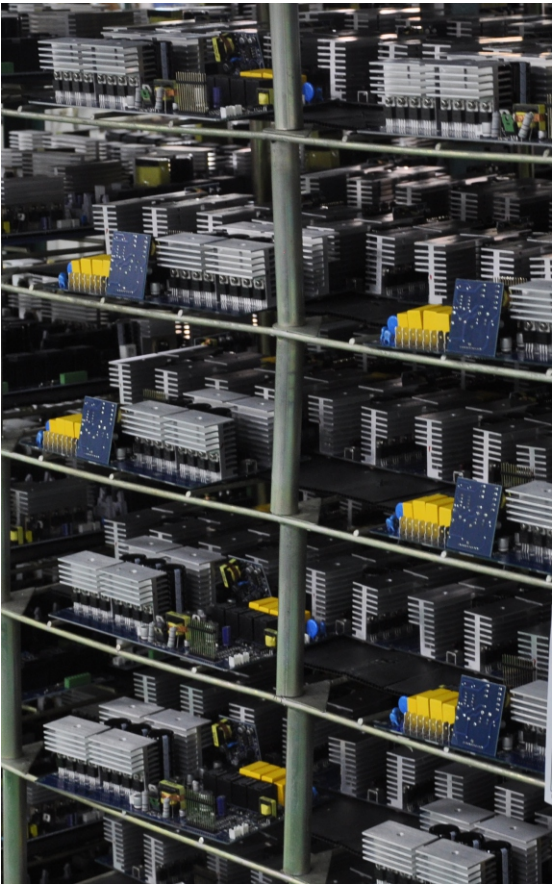
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- Basic with life period evaluate precise research, more save energy.
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- Super adapt to the reliability of the environment: characteristic under a harsh environment, stronger waterproof, dustproof, antifreeze, heat insulation and function makes it more reliable safety.
- Super load characteristics: suitable from 0%-100% load jumping, and no need to changed to bypass, and protect output stable.
- Perfect protection function.
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- Optional input harmonic filter.
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NS Series
(Sine Wave Combined Inverter & Charger)

