

HW Series

High-Performance Integrated

Outdoor Online UPS











1 ~ 10KVA (1 Ph in / 1 Ph Out)

Product snapshot:

Model: 1-10KVA

Nominal voltage: 220/230/240VAC

Nominal frequency: 50/60Hz

Output power factor: 0.9

Reliable power Rich experience

HW series communication marginal network outdoor UPS is special for wireless communication system of outdoor micro cellular base station and design of a high-performance integrated outdoor online uninterrupted power supply system, has the very high technology advancement and practicability.

Key Features

- HW Series Outdoor Intelligent High Frequency
 Online UPS provide continuous pure sine wave AC
 power supply for outside communications / network equipment.
- Double-conversion online design, high temperature resistant, anti-cold, sealing level for IP55; With the wide range of input voltage and frequency of input window (-45% +35% rated voltage and ± 10% rated frequency), in many remote areas after a severe test of the grid.

Application

This UPS is commonly used in the corner of the city, remote roads, mountains, bad environment, such as high temperature (+50 °C) / low temperature (-40 °C), severe dust, moisture, rain, mist erosion, very poor power quality (voltage long-term higher than 260V or less than 160V, frequency abnormal change) in the area.

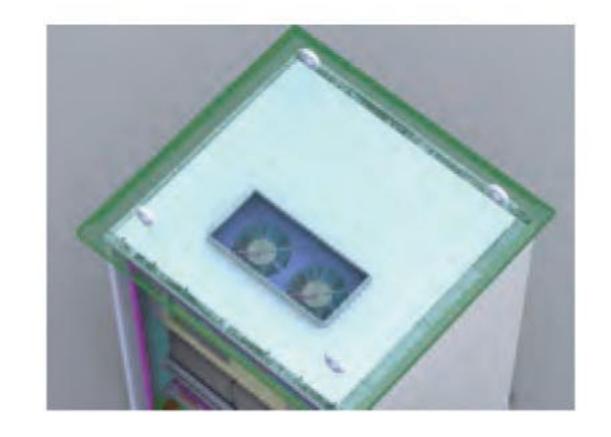
High Reliability of the UPS System

- Using microprocessor control, directly produce highfrequency pulse width modulation wave (SPWM) control of the UPS inverter, to simplify the UPS control circuit, to improve the stability, to have more real-time UPS to quickly respond to changes in the external environment and guarantee the machine's control circuit is more simple and reliable.
- Using digital control techniques, to avoid the traditional analog control temperature drift inherent defects such as hardware parameters, to ensure consistency and reliability of UPS.

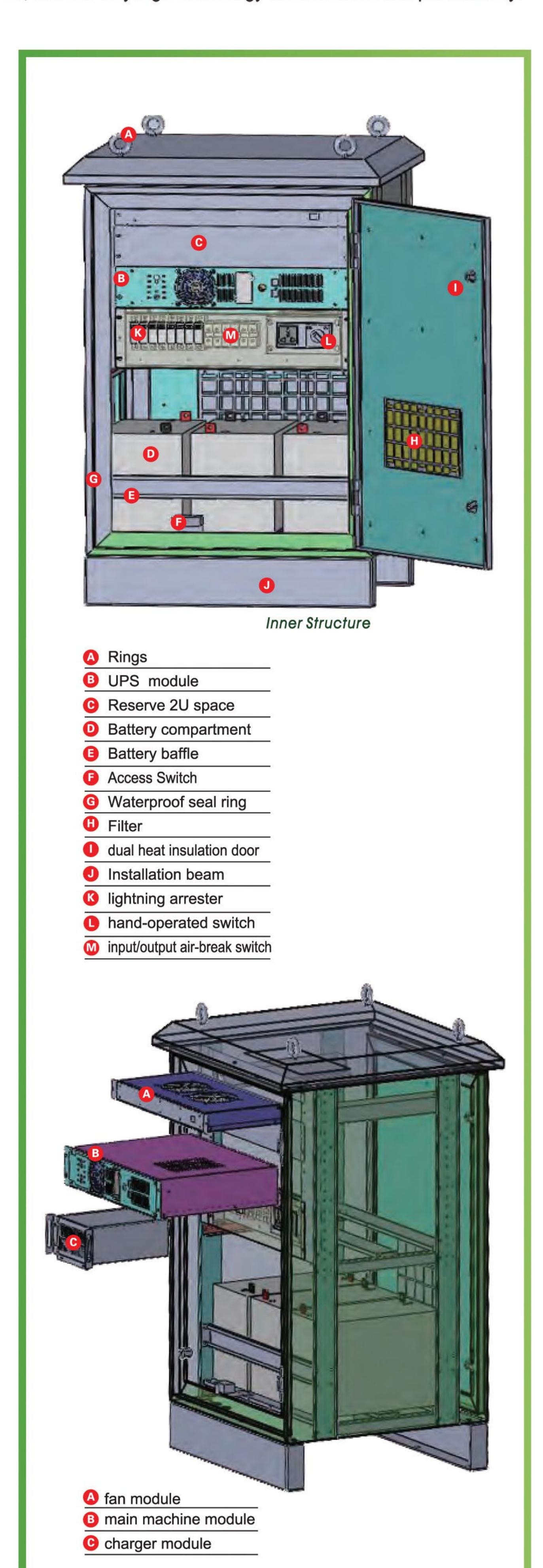
Fine dust-proof, water-proof features

According to the overall standard of design dustproof and water-proof IP55

- With a sun protection, heat insulation, roof ventilation
- With waterproof and the filtration dust inlet; the cabinet front door shutters with waterproof design, on the back of welding water tank, water tank installed above the net with quick release feature of the dust.

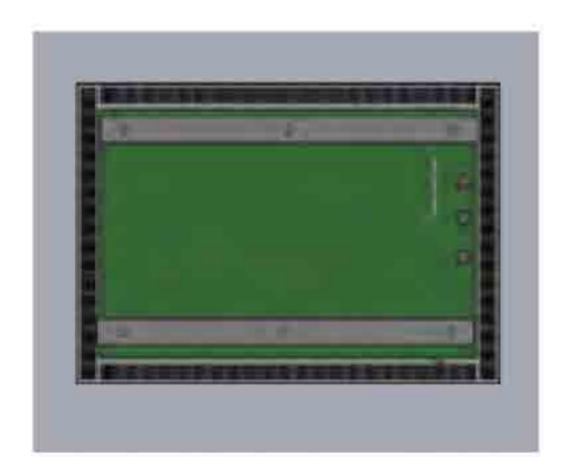




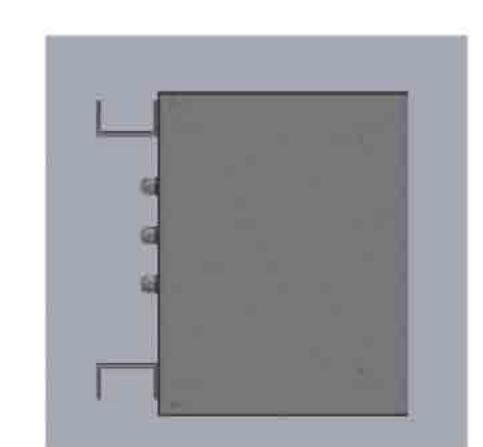


Security features

Solid chassis box



Fixed base case





Environmental adaptability

- Wide input voltage, avoids frequent switching to battery power because of large power grid voltage, reduce battery failure probability, adapt to the power environment in poor areas.
- Input Frequency Range 45 ~ 55Hz, to ensure the fuel generator can access all kinds of stability to meet user requirements for use on the oil machine.



Optional accessories

Heat exchanger

The environment which require higher IP level, we use heat exchanger to effectively reduce the temperature of box inside and improve IP protection level .



Heater and temperature controller

In response to low temperature climate impact of batteries and UPS, we adopt ajustable heating device to ensure the UPS and battery life of normal use.





HW Series Outdoor Online UPS: 1KVA to 10KVA

Technical Specifications

Nominal Voltage Nominal Frequency Input Voltage Range Frequency Range Soft Start Power Factor Output Voltage Precision Frequency Precision Power Factor Wave Distortion Overload Capability Overload Capability	HW1K-11 1KVA / 0.9KW		HW3K-11 3KVA / 2.7KW 220 / 230 / 240VAC 50Hz / 60Hz ~ 54Hz) ; 60Hz: (56H 0 ~ 100% 5sec 0.98	HW6K-11 6KVA / 5.4KW 176 ~ 2 z ~ 64Hz)	HW10K-11 10KVA / 9KW 97VAC				
Nominal Voltage Nominal Frequency Input Voltage Range Frequency Range Soft Start Power Factor Output Voltage Precision Frequency Precision Power Factor Wave Distortion Overload Capability Overload Capability		115 ~ 295VAC 50Hz: (46	220 / 230 / 240VAC 50Hz / 60Hz ~ 54Hz) ; 60Hz: (56H 0 ~ 100% 5sec	176 ~ 2					
Nominal Frequency Input Voltage Range Frequency Range Soft Start Power Factor Output Voltage Precision Frequency Precision Power Factor Wave Distortion Overload Capability Overload Capability		50Hz: (46	50Hz / 60Hz ~ 54Hz) ; 60Hz: (56H 0 ~ 100% 5sec		97VAC				
Input Voltage Range Frequency Range Soft Start Power Factor Output Voltage Precision Frequency Precision Power Factor Wave Distortion Overload Capability Overload Capability		50Hz: (46	~ 54Hz); 60Hz: (56H 0 ~ 100% 5sec		97VAC				
Voltage Range Frequency Range Soft Start Power Factor Output Voltage Precision Frequency Precision Power Factor Wave Distortion Overload Capability Overload Capability		50Hz: (46	0 ~ 100% 5sec		97VAC				
Frequency Range Soft Start Power Factor Output Voltage Precision Frequency Precision Power Factor Wave Distortion Overload Capability Overload Capability		50Hz: (46	0 ~ 100% 5sec		97 VAC				
Soft Start Power Factor Output Voltage Precision Frequency Precision Power Factor Wave Distortion Overload Capability Overload Capability			0 ~ 100% 5sec	z ~ 64HZ)					
Power Factor Output Voltage Precision Frequency Precision Power Factor Wave Distortion Overload Capability Overload Capability		220	C 1980 - SANDERS						
Output Voltage Precision Frequency Precision Power Factor Wave Distortion Overload Capability Overload Capability		220	0.98						
Voltage Precision Frequency Precision Power Factor Wave Distortion Overload Capability Overload Capability		220		0.98					
Frequency Precision Power Factor Wave Distortion Overload Capability Overload Capability		220							
Power Factor Wave Distortion Overload Capability Overload Capability		220 / 230 / 240X (1±2%)VAC							
Wave Distortion Overload Capability Can		50 / 60Hz ±0.05Hz							
Overload Capability can		0.9							
Coverioad Capability can	Linear load <3%, Non-linear load <6%								
Crest Factor	Overload (110% ~ 150%) for 30 seconds, then automatically transfer to bypass. When load is normal, it can automatically transfer to normal mode.								
	3:1								
Transfer Time	0ms (AC to DC)								
Battery									
DC Supply Voltage	36VDC	96VDC	96VDC	240VDC	240VDC				
Charge Current 4A	A / 8A (optional)	4A / 8A (optional)	4A / 8A (optional)	4.2A	4.2A				
Internal Battery Capacity	(40 / 65 / 80 / 100AH) optional								
Panel Display									
LCD	Display input and output voltage, frequency, battery voltage, battery capacity, load percentage								
Communications									
Communicate Interface	RS232, SNMP card (optional)								
Work Environment									
Temperature	-40°C ~ +50°C								
Humidity	0 ~ 95% (Non-condensing)								
Storage Temperature	-25°C ~ 55°C								
Elevation	<1500m								
Physical Characteristics									
Weight (KG) N.W		124	125	150	155				
Dimensions (W x D x H)mm 6	85								

STANDARD: Conform to GB/IEC regulation: EMC:GB7260.2/IEC62040-2 GB/17626.2 \sim 5/IEC61000-4-2 \sim 5 SAFETY:GB4943 Note: Product specifications are subject to change without further notice.