



Outdoor Ups

Product Description

Online Outdoor UPS is specially designed for outdoor communication, networking equipment which provide pure uninterrupted AC power equipment and primarily use in city corner, countryside, or mountain area. A series designed measure with high temperature resistance, frost resistance, corrosion resistance, dust prevention and waterproof and anti-lightning protection, also with wide input voltage range and frequency range: pure, stable and reliable output waveform etc. It completely solves the networking communication equipment's interference and power interrupted in poor power supply environment. Therefore, this online outdoor UPS is widely used in communication, broadcasting, aviation and other fields of outdoor communication base station power supply

Strong environmental adaptability

- P55 protection. dust prevention & waterproof, perfectly fits in poor environment
- High and low temperature resistance, operating normally at -30°C to +50°C
- Anti-lightning protection, the system equipped with no less than 1.2KV/10KV pluggable SPD Wide adaptability to power grid
- Wide input voltage range and frequency range from 110Vac to 300Vac and 40-60Hz, perfectly fits in poor power grid environment

- High voltage protection circuit, can exceed input voltage range without damage
- Online double conversion construction, completely eliminate the communication equipment's interference

VARIETY OF ACCESSORIES BASE ON DEMAND

- Provide variety of optional installation accessories, depends on your demands with rack mounted type or tower type, and so on.
- Provide the function of twice power off, UPS can be set to power off unimportant load in battery mode, which will insure the backup time of important load. Provide the dry contact for twice power off.
- Can be fixed with a SNMP card to do remote monitoring and managing, which will provide real-time information and data of UPS.

VARIETY OF ACCESSORIES BASE ON DEMAND

- Dual conversion technology and Os for switch between AC mode and DC mode, which will ensure never power off of load.
- With unmanned surveillance management, when batteries run out of energy, and AC is resumed, UPS will start automatically to take load.

- With fault diagnosis function, can analyze the fault through LED quickly.
- With cold start function, can start UPS with batteries without AC power, which can satisfy demands of emergency power supply.
- Contain the RS232 port and dry contact port, which will be convenient for communication with monitor device.

ADVANCED TECHNOLOGY AND POWERFUL FUNCTION

- Adopt DSP digital control technology, and simplify the control circuit, which will improve system reliability effectively.
- Adopt PFC circuit to raise the input power factor, reduce the harmonic pollution from UPS, and raise the utilization factor of the grid, reduce the cost of UPS working.
- The efficiency of UPS will be more than 90%, which will reduce the waste and temperature in cabinet

Technical Specification

Model	ST-HW1K	ST-HW2K	ST-HW3K
Power	1KVA	2KVA	3KVA
Output rating	1000VA/800W	2000VA/1600W	3000VA/2400W
Rated output voltage	220Vac		
Rated output frequency	50Hz/60Hz		
AC input voltage range	Load < 50%: 110 ± 5Vac to 295 ± 5Vac; Load =50%: 140 ± 5Vac to 295 ± 5Vac		
AC input frequency range	45Hz - 55Hz / 55-65Hz		
Frequency track speed	1Hz/s		
Input power factor	>0.98 (full load)		
DC input way	1 way DC input		
DC power supply voltage	24VDC	48VDC	72VDC
Float voltage (25oC)	(27.5 ± 0.4)VDC	(55 ± 0.6)VDC	(82.5 ± 0.9)VDC
Battery type	Free maintenance seal lead-acid gel battery		
Battery capacity	Compatible (12V/100AH)		
DC output way	1 way for once electricity output; 1 way for second electricity output 1 input/output isolation zero line row		
Output voltage precision	220 (1 ± 2%) VAC		
Output frequency precision	50 (1 ± 0.2%) Hz		
Output wave form	Standard sine wave		
overall efficiency	≥90%		
Output voltage wave form distortion	Linear load<3%; Nonlinear load<6%		
Output current peak factor	3:1 (Max.)		
Overload capacity	≥110%: After1 MIN turn bypass; >150%: After 200ms turn bypass		
Transfer time	Oms: The mains supply model and convert between battery mode<2.5ms:		
Twice electricity function	Support twice electricity function		
Outdoor unit defend grade	IP55		
Lightning protection grade	Input C grade Lightning protection		

Technical Specification

Work temperature	- 20 to 45°C						
Store temperature	- 25 to 60°C						
Relative humidity	0-95% No water-drop						
Sea level elevation	< 1500m; more than1500m Sea level elevation need to derate						
Protection function	With the utility voltage is too high/low: Output voltage is too high/low; Overload; Short circuit; Inverter temperature is too high; Battery low roltage; Battery charging: Surge: The lightning on the protection function						
Dry contact alarm function	Support						
Output type	Relay output						
Alarm signal	1.UPS module stoppage 2.mains supply abnormal 3.battery low voltage 4. entrance guard 5.UPS module inside high temperature 6.Lightning protection failure						
Outdoor overall dimensions WxDxH	<table border="1"> <thead> <tr> <th>1 KVA(with 2PCS battery)</th> <th>2KVA(with 4PCS battery)</th> <th>3KVA(with 6PCS battery)</th> </tr> </thead> <tbody> <tr> <td>660 x 700 x 1000mm</td> <td>660 x 900 x 1400mm</td> <td>660 x 900 x 1400mm</td> </tr> </tbody> </table>	1 KVA(with 2PCS battery)	2KVA(with 4PCS battery)	3KVA(with 6PCS battery)	660 x 700 x 1000mm	660 x 900 x 1400mm	660 x 900 x 1400mm
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Noise	< 45dB						
Mains supply isolation	Within mains supply input isolation transformer						
Manual operation bypass switch	Within manual operation bypass switch						
inlet/outlet place	Equipment cabinet bottom						
Heads pace	Obligate a standard 3U space						
Type of cooling	Forced cooling						
Box flame plating	Flame plating outdoor type powder						



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