

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.

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- 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.

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 way	1 way AC input		
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 (25°C)	(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		
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	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

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