

HD Series

(Line Interactive UPS 1000VA-5000VA)]



HD Series Brief

HD Series (1000VA-5000VA) Line Interactive UPS uses line interactive technology and provides a sinusoidal output with power factor 0.8. It consists of inverter, automatic voltage regulator, conversion circuit, main control circuit and display alarm circuits etc. It is designed to protect your computer and other important electronic equipment from power failure, brownouts, sags and surges. When the utility power is normal, UPS has voltage regulation function by internal automatic voltage regulator, meantime charge the battery. When the utility power is unnormal, ups can change the battery energy into pure sine wave AC power, make the load work. It is the ideal solution for the protection of Computer center, Network management center, Communication system, Automatic control system, ATM, Precision instrument and equipment, household appliances etc.



Main Features

- Two appearance design: Tower type and Rack-mounted type.
- Intelligent digital control technology, make pure sine wave output.
- Intuitive LED Status Indicator, Humanized LCD Display.
- 0.8 output Power Factor lives up to the load trend and stronger load.
- Automatic voltage regulation (AVR), wide input voltage range, improve the output voltage regulation accuracy.
- Line interactive mode design: high-efficiency, high-power charging ;
- Intelligent battery management, extend the battery life.
- High efficiency inverter, make the performance more stable and reliable.
- Automatic startup when AC recovers.
- RS232 Communication Port, Optional USB and SNMP Card.
- Superior Protections, input voltage, frequency overrun protection, surge voltage protection, over-current protection, output short circuit protection, over temperature protection, battery overcharge and over discharge protection.

Usage range

Capacity	Normal Range of Usage
1000VA	Fan, light, DVD, TV, oil and smoke pumping machine, charging cell phone, digital camera etc
1500VA	Less than 80W air-condition, refrigerator, TV, washing machine, fan, light, digital camera etc
2000VA	120W air-condition, DVD, VCD, TV, washing machine, oil and smoke pumping machine,refrigerator, video, Massager, fan, light etc.
3000VA	300W air-condition, DVD, VCD, large screen TV, washing machine, oil and smoke pumping marching, video, refrigerator, massager, fan, light etc.
4000VA	1 horsepower air-condition, DVD,VCD, TV, washing machine, oil and smoke pumping machine, refrigerator, video, massager, fan, light etc.
5000VA	1 horsepower air-condition, family, cinema, electric grinding wheel, electric tools, Sartorius, TV, DVD, VCD, washing machine, oil and smoke pumping machine, refrigerator, video, massager, fan, light etc.

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 Level	Utility Power Mode	Battery Mode			
Overload protection	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)

