

## Introduction

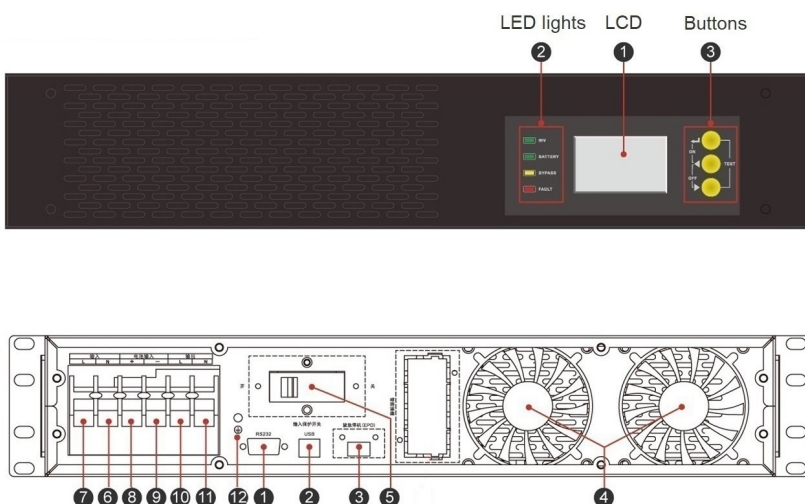
This series is a new type high-frequency Online UPS. Adopts advanced DSP digital control technology to effectively improve product performance and system reliability, and higher power density small size, light weight and high work efficiency. Effectively solve power problems such as power cut-off, Grid over voltage/low voltage, voltage instantaneous drop, amplitude reduction, high voltage pulse, surge voltage, harmonic distortion, clutter interference, frequency fluctuation and provide best power for load. We adopt standard 2U rack structure.

## 1KVA - 10KVA RACK TYPE

## Features

- \* With double conversion online design, zero output transfer time. Single phase input and output voltage.
- \* Adopt DSP digital control, excellent performance indicators, more steady and reliable.
- \* Adopt active power factor correction technology (PFC), the input power is 0.9, can reduce the pollution to the grid, save energy and system investment.
- \* Ultra-wide input voltage range.
- \* Input frequency range 40-70Hz, support various fuel generators.
- \* With LCD+LED real-time display, users can intuitively understand the UPS operating status.
- \* With self-detection function, can detect hidden faults of UPS in time.
- \* With AC input over/low voltage protection, and protection of output overload, short-circuit, temperature, battery low voltage and overcharge.
- \* The efficiency of the whole UPS is as high as 95.5% which reduces the power loss of it and saves the user's cost.
- \* When there is no mains power, you can directly use the battery to cold start.
- \* Avoid the reverse connection of UPS utility input with input neutral and live line detection function.
- \* Standard RS232 communication outlet connect UPS and computer to realize multifunctional and multi-purpose monitoring and management operation. SNMP card (optional) for UPS remote monitoring function.

## Front & Rear Panel



1. RS232 Communication port
2. USB Communication port
3. EPO Port
4. Fan
5. Input Switch
6. AC input neutral
7. AC input live wire
8. Battery +
9. Battery -
10. AC output live wire
11. AC output neutral
12. Ground wire

## Specifications

## 1KVA - 10KVA RACK TYPE

MODEL		HD-1KR9	HD-2KR9	HD-2KRS	HD-3KR9	HD-3KRS	HD-6KR9	HD-6KRS	HD-10KR9	HD-10KRS
INPUT	Power rating	1KVA/0.9KW	2KVA/1.8KW		3KVA/2.7KW		6KVA/5.4KW		10KVA/9KW	
	Input connection type	L+N+PE								
	Nominal Voltage	208/220/230/240VAC								
	Input Voltage Range	110~300VAC								
	Frequency Range	50/60Hz (default), ±10% (settable)								
	Power Factor	≧ 0.99								
	THDi	≤4% (Linear Load)								
OUTPUT	Output connection type	L+N+PE								
	Voltage	208/220/230/240VAC								
	Voltage Regulation	±1%								
	Frequency Range	Mains mode: same as AC frequency, Battery mode: 50/60Hz ±0.1%								
	THDv	≤2% (Linear Load) ≤4% (Non-linear Load)								
BATTERY	Battery type	Sealed lead acid maintenance free battery								
	Battery quantity	12V9Ah*2	12V7Ah*6	/	12V7Ah*8	/	12V7Ah*16	/	12V9Ah*16	/
	Backup time	5~7mins	6~8mins	/	6~8mins	/	6~8mins	/	4~6mins	/
	DC voltage	24VDC	72VDC		96VDC		192VDC			
	Charging Mode	Three-stage charging								
OTHERS	Overload Capacity	Line Mode: 30min@102%~110% Load / 10min@110%~130% Load / 30s@130%~150% Load / 200ms@>150% Load Battery Mode: 1min@102%~110% Load / 10s@110%~130% Load / 3s@130%~150% Load / 200ms@>150% Load								
	Transfer Time	AC mode to Battery mode: 0ms; Inverter to bypass: 4ms								
	Efficiency	Up to 95.5%								
	Communications	RS232 with UPSmart software - UPS monitoring via RS232 connection. USB/SNMP card/EPO (Optional)								
OPERATING ENVIRONMENT	Temperature	0℃ ~40℃								
	Humidity	20%~95% (non - condensing)								
	Altitude	Should be less than 1000m, derating above 1000m, refer IEC62040								
	Storage temperature	-15~60℃ (without batteries)								
PHYSICAL	Dimension W*D*H(mm)	420*440*88								
	N.W(kg)	10.5	6.5		7		10		11	
BATTERY PACK	Type	Insides BAT	External Battery Pack							
	Nominal DC Voltage	24VDC	72VDC		96VDC		192VDC			
	N.W(kg)	/	22.5	/	27.8	/	51.36	/	57.28	/
	Dimension W*D*H(mm)	/	480*450*88	/	480*465*88	/	480*600*132	/	480*600*132	/

\* Product specifications are subject to change without further notice