

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.

### Application field

Widely used in small and medium-sized enterprise data center, small financial system network, industrial automation control system, LAN server, CBS server, Shopping center cashier, bank securities, tax, communications, postal, transportation, Power, medical, industrial control, petrochemical.



### 1KVA ~ 3KVA TOWER TYPE

### Product performance

- With double conversion online design, zero output transfer time.
- Adopt DSP digital control, excellent performance indicators, more steady and reliable.
- Adopt active power factor correction technology (PFC), the high input power factor can reduced the pollution to the grid, To energy saving and reducing system investment cost.
- Ultra-wide input voltage range
- With LCD+LED real-time display, UPS operating available for Detection
- With self- detection function, can detect hidden faults of UPS
- Cold start by battery without grid Input.
- Input frequency range 44~66Hz, support various fuel generators
- With AC input over voltage, low voltage protection, output overload protection, short circuit protection, temperature protection, battery low voltage warning protection and battery overcharge protection.
- Efficiency reach 95.5%, reduce loss of UPS .
- With input neutral and live line detection function, avoid the reverse connection of UPS utility input
- When utility cut-off, the UPS discharge battery in the battery mode; when the city power is recovery, UPS turn on automatically,and charge battery at the same time, as unattended function.
- Standard RS232 communication outlet , connect UPS and computer to realize multifunctional and multi-purpose monitoring and management operations, available SNMP card (optional) to UPS remote monitoring function

### Specifications

MODEL		HD-1KT9	HD-1KS	HD-2KT9	HD-2KS	HD-3KT9	HD-3KS
Capacity		1KVA/0.9KW		2KVA/1.8KW		3KVA/2.7KW	
Input	Input format	L+N+PE					
	Rated input voltage	208 \ 220 \ 230 \ 240 VAC					
	Voltage range	110~300 VAC					
	Frequency range	50Hz: 44~56Hz, 60Hz: 54 ~66Hz					
	Input power factor	≥0.99					
	THDi	≤3% linear load, ≤5% nonlinear load					
Output	Output format	L+N+PE					
	Output voltage	208 \ 220 \ 230 \ 240 VAC					
	Output accuracy voltage	±1%					
	Output frequency	For on-line mode: follow current frequency, battery mode: 50/60Hz ± 0.1%					
	Output harmonic distortion	≤1% linear load, ≤3% nonlinear load					
	THDv	0.9					
	Transfer time	Switch to battery mode: 0 ms, Switch to bypass: 4 ms					
	Overload capacity	Electricity mode	30 min@102%~110% Load 10 min@110%~130% Load 30 s@130%~150% Load 500 ms@>150% Load				
Battery mode		1 min@102%~110% Load 10 s@110%~130% Load 3 s@130%~150% Load 500 ms@>150% Load					
Efficiency	AC mode	Peak efficiency: 95.5%					
		Full load efficiency: 95%					
Charger	Battery type	Sealed lead-acid maintenance free battery					
	Battery number	12V/9Ah x 2	36V	12V/7Ah x 6	72V	12V/7Ah x 8	96V
	Battery current	KT9 series: 1A (default), 1~2A (adjustable), KS series: 5A (default), 1~12A (adjustable)					
	Charging mode	Two-stage/three-stage charging					
Environmental parameters	Operating temperature	0~40℃					
	Operating environment humidity	20%~95% (non - condensing)					
	Storage temperature	-15~60℃ (without battery)					
	Altitude	The elevation should not exceed 1000 m, 1000m or above, up to 4000m, reference IEC62040					
	Noise	<45 dB					
Communications		RS232/USB (available). SNMP, EPO (optional)					
Standards and certification		EN/IEC 61000, EN/IEC 62040, GB/T 7260, GB/T 4943, YD/T1095, TLC etc					
Physical	Dimensions (WxHxD) (mm)	285*143*222	285*143*222	455*190*330	395*143*222	455*190*330	395*143*222
	Net Weight (Kg)	8	3.5	18.5	5.5	26.5	5.7

\* Product specifications are subject to change without notice

2021 Version