

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 Online double conversion 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
- Compatible with gennerator, automatically switch to the generator when the generator is running and when main power comes back disables
- With LCD+LED real-time display, UPS operating available for Detection. LCD display: In-Output voltage, Load-battery level, discharge time, fault. LED display with alarm when overload, low battery, abnormal AC input, UPS fault....
- With self-detection function, can detect hidden faults of UPS
- Cold start by battery without grid Input
- Input frequency range 40~70Hz, support various fuel generators.
- With AC input over voltage, low voltage protection, output overload protection, temperature protection, battery low voltage warning protection and battery overcharge protection
- 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, SNMP card (optional) for UPS remote monitoring function.

MODEL		HD-1KTH		HD-2KTH		HD-3KTH	
Capacity		1KVA/1KW		2KVA/2KW		3KVA/3KW	
Input	Input format	L+N+PE					
	Rated input voltage	208/220/230/240VAC					
	Voltage range	110~300 VAC±5% at 50% load 160~300 VAC±5% at 100% load					
	Frequency range	40~70Hz (50/60Hz: Auto-sensing; 50Hz: 44~56Hz; 60Hz: 54~66Hz)					
	Input power factor	≥ 0.99					
	THDi	≤3% linear load					
Output	Output format	L+N+PE					
	Output voltage	208/220/230/240VAC					
	Output accuracy voltage	± 1%					
	Output frequency	50/60Hz; Battery mode: 50/60Hz ±0.1%					
	THDv	≤1% linear load; ≤3% non-linear load					
	Power factor	1.0					
	Transfer time	Switch to battery mode: 0ms; Switch to bypass: 4ms					
	Overload capacity	102-110% load: 30mins; 110-130% load: 10mins; 130-150% load: 30s; >150% load: ≥300ms					
Efficiency	AC mode	Peak efficiency: 95.5%					
		Full load efficiency: 95%					
	ECO mode	98%					
Battery	Battery type	Sealed lead-acid maintenance free battery (VRLA)					
	Battery voltage	24V	36V	72V	96V		
	Backup time at 50% load	12 ~13 mins				11 ~12 mins	
	Recharging time	90% capacity recovered in 3 hours for (Prioritize slow recharging to prolong the battery life)					
	Battery current	1A (default), 1-2A (adjustable)					
	Charging mode	Two-stage/three-stage charging; energy saving					
	Battery indicator	Percentage (%) of battery capacity					
Display	LCD+LED	LCD display: Operating mode, load, input, output, battery, fault... LED display with flash & buzzer: overload, low battery, anormal AC input, UPS fault...					
Environmental parameters	Operating temperature	0 ~ 40°C					
	Operating humidity	20%~95% (non-condensing)					
	Storage temperature	-15 ~ 60°C (without battery)					
	Altitude	The elevation should not exceed 1000m, 1000m or above, up to 4000m, reference IEC62040					
	Noise	≤45 dB					
Communications		UPS monitoring via RS232 connection-Auto shutdown or control PC/server before UPS stops working /USB. SNMP, EPO (optional)					
Standards and certification		EN/IEC 61000, EN/IEC 62040, IEC60364, ISO9001, GB/T 7260. GB/T 4943. YD/T1095, TLC etc.					
Physical	Dimensions (W*D*H)(mm)	143*285*222		190*455*330		190*455*330	
	Net Weight (Kg)	8		18.5		26.5	

\* Product specifications are subject to change without further notice