

UPS online 1 phase PF 1.0 (Tower case)



Features

- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 1.0
- Wide input voltage range (176V – 288Vac) and frequency range (40 – 70Hz)
- Auto-sensing frequency
- 50/60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management.
- LED display with alarm and flash (Battery, voltage, Fan, fault...)
- Parallel for 4pcs (optional)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode
- Multi-platform communications: RS232 (standard), USB/RS485/SNMP/ dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function

Rear panel



Optional outlets

1. AC input socket
2. Battery connector (Optional)
3. Fan
4. USB (Optional)
5. EPO (Optional)
6. RS232
7. Intelligent slot (Optional)
8. Output sockets



Specification

MODEL	HD-2KT	HD-10KT
Capacity	2kVA/ 2kW	10kVA/ 10kW
INPUT		
Rated voltage	1 phase, 220/230/240Vac (Selectable)	
Voltage range	176-288Vac	
Frequency	50/60Hz; 40~70Hz (auto-sensing)	
Power factor	≥0.99	>0.99
Bypass voltage range	-25% - +15% (settable)	
Total harmonic distortion (THDi)	≤ 6%	
OUTPUT		
Voltage	220/230/240Vac (settable via LCD)	220/230/240Vac (settable via LCD)
Voltage regulation	±1%	
Frequency	50/60Hz ±1%; 45-55Hz or 55-65Hz (synchronized range); 50/60Hz ±0.1Hz (battery mode)	
Waveform	Sinusoidal	
Power factor	1.0	
Total harmonic distortion (THDv)	≤2% (linear load)	
Crest factor	3:1	
Overload	105%-125% for 1 min; 125%-150% for 30s; >150% for 300ms	<110% load: trasfer to bypass after 60minutes <125% load: trasfer to bypass after 1minutes
BATTERIES		
DC voltage	72V	192V
Battery type	VRLA, 5 years battery life	
Charging time	5h for 90% load	4h for 90% load
Battery managements	Smart charging time, Automatic battery test, Low battery warning, check battery capacity	
SYSTEM		
Efficiency AC-AC	≥86% (Battery mode)	≥90% (Battery mode)
	≥95% (ECO mode)	
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)	
Protections	Short-circuit, overload, over voltage, low voltage, overtemperature, battery discharge protection and fan testing protection	
Communications	RS232 (standard), USB/RS485/dry contact/SNMP (optional)	
Display and control	LCD + LED (Load, battery, capacity, voltage, operation mode, bypass mode, Even, Fan, Fault...)	
Display information	UPS operation and setting; Load icon (0-25%; 26-50%; 51-75%; 75-100%); Mute icon; Fan icon; Fault icon; Battery status icon;.....	
OTHERS		
Operation temperature	0-40°C	
Storage temperature	-25-55°C (without battery)	0-70°C (without battery)
Relative humidity	0-95% (non-condensing)	0-95%
Altitude	≤ 1000m, derating 1% for each additional 100m	
IP rating	IP 20	
Noise level at 1m	≤50dB	≤55dB
Dimensions (W*D*H),mm	191*418*335	191*495*350
Net weight (kg)	10.5	16.5

- All specifications are subject to change without notice
- Custom-made specifications are acceptable