

ONLINE TOWER UPS

3KVA

PF 1.0

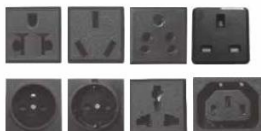


Features

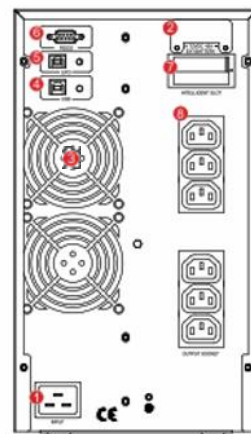
- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 1.0
- Wide input voltage range (110V – 300Vac) and frequency range (40 – 70Hz)
- Auto-sensing frequency
- 50/60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3h
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, EPO function

Rear panel

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



Optional outlets



Specifications

MODEL	HD-3KTH
Capacity	3 kVA / 3000W
Technology	True online double conversion
INPUT	
Rated voltage	200 / 208 / 220 / 230 / 240 Vac
Voltage range	110-176Vac (linear derating between 50% and 100% load); 176-280Vac (no derating); 280-300Vac (derating 50%)
Frequency	40 – 70Hz (50/60Hz auto-sensing)
Power factor	≥ 0.99
Bypass voltage range	-25% - +15% (settable)
Total harmonic distortion (THDi)	≤ 6%
OUTPUT	
Voltage	200 / 208 / 220 / 230 / 240 Vac (settable via LCD)
Voltage regulation	± 1%
Frequency	45-55Hz or 55-65Hz (synchronized range); 50-60Hz ±0.1Hz (battery mode)
Waveform	Pure sine wave
Power factor	1.0
Total harmonic distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)
Crest factor	3:1
Overload	105 – 125% for 1 min; 125-150% for 30s; >150% for 300ms
BATTERIES	
DC voltage	96V
Inbuilt battery	12V7Ah * 8 (VRLA Sealed lead-acid maintenance free battery)
Charging current (max.)	1A
Recharge time	90% capacity restored in 3h
SYSTEM	
Efficiency	≥ 94% (Mains mode – AC/AC)
	≥ 87% (Battery mode)
	≥ 97% (ECO mode)
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection
Communications	RS232, intelligent slot (standard). USB/RS485/dry contacts/SNMP card (optional)
Display	LCD+LED: LCD displays Input, output, battery, load, operating modes, UPS status, faults... LED lights: Green LED indicator light: indicates that UPS is in mains mode or ECO mode. Yellow LED indicator light: indicates that UPS is in bypass mode. Red LED indicator light: indicates that UPS is in fault status
OTHERS	
Operation temperature	0 – 40°C
Storage temperature	-25 – 55°C (without battery)
Relative humidity	0 – 95% (non-condensing)
Altitude	≤ 1000m, derating 1% for each additional 100m
IP rating	IP 20
Noise level at 1m	≤ 50dB
Dimensions (W*D*H) mm	191*419*335
Net weight (kg)	29.4

- Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac
- All specifications are subject to change without notice. Custom-made specifications are acceptable