

TOWER TYPE UPS

2KVA/ PF 0.9

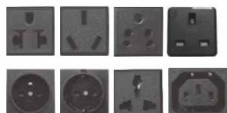


Features

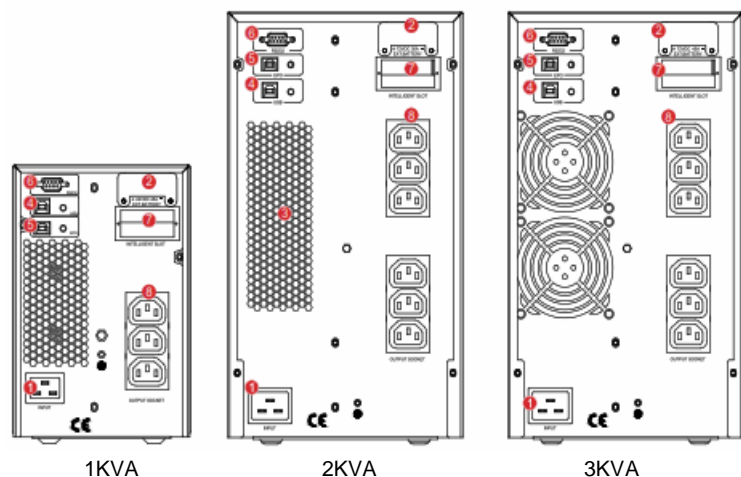
- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110V – 300Vac) and frequency range (40 – 70Hz)
- Auto-sensing frequency
- 50/60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Compact tower design
- 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).
- SNMP (NMC) -Network Management Protocol provides a way to manage network devices by querying for information and issuing commands. It functions by sending requests to network devices, which then respond with the requested data or execute the requested action. The main functions include monitoring, configuration management, and event notifications. Schedule UPS administration. Save historical information, events, UPS status. Automatically send input/output, temperature, load, warning status reports via administrator email
- 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 (Optional)
8. Output sockets



Optional outlets



1KVA

2KVA

3KVA

Specifications

| MODEL | HD-2KTH |
|----------------------------------|---|
| Capacity | 2kVA / 1.8kW |
| INPUT | |
| Rated voltage | Single phase 200/208/220/230/240 Vac (Selectable) $\pm 10\%$ |
| 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) | $\leq 3\%$ (linear load), $\leq 6\%$ (non-linear load) |
| Generator compatibility | Support |
| OUTPUT | |
| Voltage | Single phase 208/220/230/240Vac (settable via LCD) |
| Voltage regulation | $\pm 1\%$ |
| Frequency | 50/60Hz $\pm 10\%$ (synchronized range); 50-60Hz $\pm 0.1\text{Hz}$ (battery mode) |
| Waveform | Pure sine wave |
| Power factor | 0.9 |
| Total harmonic distortion (THDv) | $\leq 2\%$ (linear load), $\leq 5\%$ (non-linear load) |
| Crest factor | 3:1 |
| Overload | 105% ~ 130% for 1 min; 130% ~ 150% for 30s; >150% for 300ms and transfer to bypass |
| Socket | IEC C13 +Ter or Universal +Ter |
| BATTERIES | |
| DC voltage | 48V |
| Inbuilt battery | 9Ah*4 |
| Charging current (max.) | 1A |
| Type | Hyundai VRLA 12V (Sealed lead-acid maintenance free battery) |
| Backup time | ≥ 11 minutes at 50% load/ ≥ 5 minutes at 100% load |
| Recharge time | Restored in $\geq 3\text{h}$ |
| Charging technology | Advanced battery management (auto transfer to continuous charging). Prioritize slow charging to preserve battery life. |
| SYSTEMS | |
| Efficiency | $\geq 91\%$ (Mains mode) |
| | $\geq 87\%$ (Battery mode) |
| | $\geq 96\%$ (ECO mode) |
| Transfer time | Mains mode to battery mode: 0 ms Inverter mode to bypass mode & back: 4 ms (typical) |
| Protections with warning | Short-circuit, overload, overtemperature, low battery, battery discharge overvoltage and fan testing protection |
| PC- Communications | RS232 (standard) UpsSmartView monitoring software via RS232 connection-auto shutdown or control server before UPS stop working; Build-in surge protection; USB/ RS485/dry contact/ SNMP (optional) Supports Windows®98/2000/2003/XP/Vista/2008/7/8/10/Linux/Unix/MAC |
| Display and control | LCD + LED Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode Ups operating status via LCD color: Load, battery, input, output, bypass, charging, discharging time, mute, fan, fault...; When UPS is overload, the load icon will flash; |

| | |
|-----------------------|---|
| | LED warning with sound and flashing light when ups is wrong shutdown, bypass mode, overload, low battery, and UPS fault with warning continuously |
| Standards | EN 62040; IEC 61000; IEC 62040 |
| 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 (D*H*W),mm | 419*335*191 |
| Net weight (kg) | 18 |

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