

HYUNDAI UPS**30KVA ~ 40KVA****(3:3) Tower****PF 0.9/1.0****Features**

- True online double-conversion design , Advanced dual-core IGBT control technology and 3-level technology
- Output power factor 0.9 (1.0 for settable)
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 96%, energy saving rate is doubled
- Working efficiency up 2-3% in ECO mode
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range, 50 / 60 Hz auto-sensing frequency
- 50 / 60 Hz frequency conversion mode
- Compact internal layout, small footprint
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Features strong fault tolerance, one fan damaged takes 50% of the load, two fans damaged take 30% of the load
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Linear downgrading in low voltage input, reducing battery discharging times
- Flexible battery configuration setting, selectable battery numbers: 30~ 44 pcs
- Digitally controlled charger
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- 5 inches LCD colorful touch screen, programmable hard keys, friendly human & machine interface on AC mode, Bypass, fault alarm; LED flash status display AC mode, BAT mode, Bypass mode, ECO mode, Alert.
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, dry contacts. SNMP/NMC card, EMP card, Wi-Fi card (Optional)
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Options and accessories: RS232, USB, RS485, RJ45, Parallel, Dry contacts, EPO interfaces supplied; Optional SNMP card, EMP card, Wi-Fi card

2023@version

Specifications

| MODEL | HD-30KP3 | HD-40KP3 |
|---------------------------------------|---|--|
| Capacity | 30KVA/27KW | 40KVA/36KW |
| Operation modes | Normal, Battery, Bypass, Maintenance, ECO, Auto-restart, Frequency converter, self aging | |
| Standard | CE, ISO90001:2015, ISO14001:2015 | |
| INPUT | | |
| Input wiring | Three-phase five-wire (3φ + N + PE) | |
| Rated voltage | 380/400/415Vac | |
| Voltage range | 380Vac(L-L)/220Vac(L-N); 228 ~ 478Vac (L-L)/116 ~276Vac(L-N) | |
| Rated frequency | 50/60Hz (auto-sensing) | |
| Frequency range | 40 ~ 70Hz | |
| Power factor | ≥ 0.99 | |
| THDi | < 5% (full non-linear load) | |
| Bypass voltage range | Synchronized range in main mode;380V; default -20% ~ +15% | |
| Bypas frequency range | ±1Hz, ±3Hz, ±5Hz (selectable) | |
| Bypass overload | 125% continuous; 125%~130%: 10min; 130% ~150%: 1min | |
| Transfer to bypass | Auto transfer to bypass when UPS overload, fault | |
| Generator compatibility | Yes | |
| OUTPUT | | |
| Output wiring | Three-phase five-wire (3φ + N + PE) | |
| Rated voltage | 380/400/415Vac | |
| Voltage regulation | 380Vac(L-L)/ 220Vac(L-N) ± 1% | |
| Frequency | Synchronized with utility in mains mode, 50/60 Hz (±0.1% in battery mode) | |
| Waveform | Pure sinewave | |
| Capacity | 27kW | 36kW |
| Power factor | 0.9 (settable to 1.0) | |
| Transfer time | 0ms | |
| Wirring/socket | 3 phase Hardware terminal | |
| THDv | <1% (full linear load); <4% (full non-linear load) | |
| Crest factor | 3:1 | |
| Overload (inverter mode) | <110% continuous; 110%~125% for 10min; 125%~150% for 1min | |
| Protections | Overload, over temperature, short circuit, low battery, fault..... | |
| BATTERIES | | |
| DC voltage | 384VDC (±192VDC) | |
| Number of battery | 32 pcs 12V (30~44 pcs settable) | |
| Charging current (max.) | 10A | 15A |
| Recharge time | Depend on the capacity of battery | |
| Battery type | VRLA Valve-regulated maintenance-free sealed lead-acid (AGM) | |
| Float charge voltage | 2.25V/cell(selectable from 2.2V/cell~2.35V/cell) Constant current and floated voltage charge mode | |
| Equalized charge voltage | 2.37V/cell(selectable from : 2.30V/cell~2.45V/cell) Floated current and constant voltage charge mode | |
| Temperature compensation | 3.0(selectable:0~5.0) mV/°C/cl | |
| Final discharging voltage EOD Voltage | 1.65V/cell(selectable from: 1.60V/cell~1.75V/cell) @0.6C discharge current 1.75V/cell (selectable from: 1.65V/cell~1.8V/cell) @0.15C discharge current (EOD voltage changes linearly within the set range according to discharge current) | |
| SYSTEM | | |
| Efficiency | Max. 95% in normal mode, 98% in ECO mode | Max. 96% in normal mode, 98% in ECO mode |
| Number of parallel connections | Max 4(optional) | |

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|-------------------------|---|-------------|
| Communications | Standard configuration: RS232, USB, RS485, Dry contacts Optional configuration: NMC/SNMP card, EMP card, Wi-Fi card | |
| Display/Control | 5 inches colorful LCD touch screen | |
| Operating status | Homepage, System, Alarms, Control, Settings | |
| | Battery Voltage (V); Battery current(A); Battery status; Tem (°C); Residual discharge time (min); Remaining cap (%) | |
| | Output status: Voltage (V); Current(A); Frequency(Hz); Load ratio (%); | |
| Interface | Standard: RS232 with UPS Monitoring and management software; RS485; EPO; Dry contact NMC/SNMP card Parallel card (optional) | |
| CE Standards | IEC62040-1 | |
| OTHERS | | |
| Operation temperature | 0 ~ 40°C | |
| Storage temperature | -25°C~ 55°C (without battery) | |
| Relative humidity | 0 ~95% (non-condensing) | |
| Cooling system | Convection fan | |
| Altitude | ≤ 1000m; above 1000m, downgrading 1% for each additional 100m | |
| IP rating | IP 20 | |
| Noise level at 1m | <60dB | <65dB |
| Dimensions (W*D*H) (mm) | 250*840*650 | 250*720*560 |
| Net weight (kg) | 42 | |

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