

## 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

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	
<b>INPUT</b>		
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	
<b>OUTPUT</b>		
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	
Wiring/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.....	
<b>BATTERIES</b>		
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/cI	
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)	
<b>SYSTEM</b>		
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)	

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	
<b>OTHERS</b>		
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