

HYUNDAI UPS

80KVA – 200KVA

(3:3)

PF 1.0



Features

- Advanced dual-core DSP control technology and 3-level technology
- High frequency online double conversion
- Output power factor 1.0
- 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 to 99% 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 (Max.48 A)
- 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, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, RJ45, SNMP, dry contacts, SNMP card, EMP card, Wi-Fi card.....
- Optional and accessories: Parallel, EPO and battery temperature compensation interfaces supplied; SNMP card, EMP card, Wi-Fi card, battery temperature sensor, EMD detector and SMS alarms.
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life

Specifications

MODEL	HD-40KTH3	HD-60KTH3	HD-80KTH3	HD-100KTH3	HD-120KTH3	HD-160KTH3	HD-200KTH3
Capacity	40KVA/40KW	60KVA/60KW	80KVA/80KW	100KVA/100KW	120KVA/120KW	160KVA/160KW	200KVA/200KW
INPUT							
Input wiring	Three-phase five-wire (3φ + N + PE)						
Rated voltage	380/400/415Vac						
Voltage range	304 – 485Vac (no downgrading), 138V – 304Vac (linear downgrading between 40%-100% load)						
Rated frequency	50/60Hz (auto-sensing)						
Frequency range	40 – 70Hz						
Power factor	≥ 0.99						
Bypass voltage range	-60% - +20%						
THDi	≤ 3%						
OUTPUT							
Output wiring	Three-phase five-wire (3φ + N + PE)						
Rated voltage	380/400/415Vac						
Voltage regulation	± 1%						
Frequency	Synchronized with utility in mains mode, 50/60 Hz ±0.1% in battery mode						
Waveform	Pure sine wave						
Power factor	1.0						
THDv	<1% (linear load); < 3% (non-linear load)						
Crest factor	3:1						
Overload	105% - 110% for 60min; 110%~125% for 10min; 125%~150% for 1min; >150% for 0.2s						
BATTERIES							
DC voltage	±192Vdc default (±180 ~ ±264 Vdc Settable) 40KVA built-in battery; ±240Vdc (80pcs 12V9AH)						
Number of battery	32 pcs 12V VRLA batteries (30~44 pcs settable)						
Charging current (max.)	12A	24A			36A		48A
Recharge time	Depend on the capacity of battery						
SYSTEM							
Efficiency	Max. 96% in online mode, 99% in ECO mode						
Transfer time	0 ms						
Protections	Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fan failure						
Max. number of parallel connections	4						
Communications	Standard configuration: RS232 with UPS monitoring management software, USB, RS485, Dry contacts Optional configuration: SNMP card for UPS activity monitoring via Ethernet&Internet protocol - Web browser, Wi-Fi card, GPRS card....						
Display	5 inches colorful LCD touch screen						
OTHERS							
Operation temperature	0 – 40°C						
Storage temperature	-25°C – 55°C (without battery)						
Relative humidity	0 – 95% (non-condensing)						
Altitude	≤ 1000m; above 1000m, downgrading 1% for each additional 100m						
IP rating	IP 20						
Noise level at 1m	≤ 65dB						
Dimensions (W*D*H) (mm)	360*850*885	360*850*950	360*850*1200	440*850*1200		600*850*1200	
Net weight (kg)	95/295	130	156	158	198	250	300

- All specifications are subject to change without notice
- Custom-made specifications are acceptable
- Derate capacity to 90% when the number of batteries is set to 30pcs

2024@version