ONLINE 3:3 UPS



HYUNDAI UPS 80-200KVA (3:3) PF 1.0 TOWER CASE



Features

- Advanced dual-core DSP control technology and 3-level technology
- Output power factor 1.0
- Operation
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 95%, energy saving rate is doubled
- Working efficiency up to 98.5% 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
- 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
- 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 on front panel, friendly human & machine interface.
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, battery cold start.
 Dry contacts, SNMP 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

2024@version

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Specifications

MODEL	HD-80KTH	HD-100KTH	HD-120KTH	HD-200KTH		
Capacity	80KVA/80KW	100KVA/100KW	120KVA/120KW	200KVA/200KW		
Operating modes	Online mode/ normal mode; On battery mode; On static bypass mode; Maintenance bypass mode; On ECO/ Economic mode; Auto-restart mode; Frequency converter mode; Self Aging mode.					
INPUT						
Input wiring	Three-phase five-wire (3φ + N + PE)					
Rated voltage	380/400/415Vac (Selectable)					
Voltage range	304 ~ 478Vac (no downgrading), 228V ~ 304Vac (linear derating according to minimum phase voltage)					
Rated frequency	50/60Hz (auto-sensing)					
Frequency range	40 ~ 70Hz					
Power factor	> 0.99					
Bypass voltage range	-20% ~ +15%					
Bypass frequency range	±1Hz; ±3Hz; ±5Hz (selectable)					
Bypass Overload	≤125% keep working; 125%~130%: 10mins; 130%~150%: 1min					
THDi	< 3% (Linear load); <5% (Non-linear full load)					
OUTPUT						
Output wiring	Three-phase five-wire (3φ + N + PE)					
Rated voltage	380/400/415Vac (Settable)					
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 full load); < 3% (non-linear full load)					
Crest factor	3:1					
Overload (inverter mode)	<110% for 60min; 110%~125% for 10min; 125%~150% for 1min; >150% for 0.2s					
BATTERIES	~11070 101 00111111, 11070~12070 101 1011111, 12070~10070 101 1111111, 210070 101 0.25					
DC voltage		+192\/dc default (+180	~ +264 V/dc Settable)			
Number of battery	±192Vdc default (±180 ~ ±264 Vdc Settable) 32pcs 12V					
Charging current (max.)	24A	36		48A		
Cold start	2-77			40/1		
Recharge time	Yes, UPS can start without AC power Depend on the capacity of battery					
SYSTEM						
Efficiency	Max. 96% in online mode, 98.5% in ECO mode					
Transfer time	0 ms					
Protections	Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, Failure,					
Max. number of parallel connections	Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, Failure,					
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 & control	5 inches colorful LCD touch screen and LED display					
	System, alarm, control, setup, password login					
	Main operating status/ Bypass mode: Voltage(V), Current(A), Frequency(Hz), PF					
	Main operating status/ Battery mode: Battery Voltage(V), Battery Current(A), Battery status(idle,discharge,boost charge,floating charge), Backup time (min), Remaining cap(%)					
	Main operating status/ Output mode: Voltage(V), Current(A), Frequency(Hz), Load ratio (%), Capacity(kW), Apparent power per phase(kVA), Phase response power(kVA), PF					
Alarms	Alarms by sound and flash when UPS operation fault and record error					
OTHERS						

Operation temperature	0 ~ 40°C					
Storage temperature	-40°C ~ 70°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	≤ 65dB		≤ 65dB		
Dimensions (W*D*H) (mm)	360*850*1200	440*850*1200		600*850*1200		
Net weight (kg)	156	158	198	300		

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

The menu structure of the monitoring display interface



