

ONLINE UPS 40KVA

(3:3)

PF 1.0



Features

- High frequency online double conversion technology
- Advanced dual-core DSP control technology and 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 95% and 96%, energy saving rate is doubled
- Output power factor 1.0
- 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
- Work efficiency up to 98% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Flexible battery configuration setting, selectable battery numbers: 32~ 40 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
- Compact internal layout, small footprint
- 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, dry contacts, SNMP card, Wi-Fi card
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Standard RS232, USB, RS485, EPO, simple dry contacts, Parallel port
- Optional SNMP card, Wi-fi card

Specifications

MODEL	HD-40KH3
Capacity	40KVA/40KW
INPUT	
Rated voltage	380/400/415Vac (3PH+N+PE)
Voltage range	304 – 476Vac, full load 228V – 304Vac, load decrease linearly according to the min phase voltage
Rated frequency	50/60Hz (auto-sensing)
Frequency range	40 – 70Hz
Power factor	>0.99
Bypass voltage range	Selectable, default -20%~+15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%
Bypass frequency range	Selectable, ± 1 Hz, ± 3 Hz, ± 5 Hz
Total harmonic distortion (THDi)	< 3% (linear load)
Bypass overload	125%: Long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms
OUTPUT	
Rated voltage	380/400/415Vac (3PH+N+PE)
Voltage regulation	$\pm 1\%$ (full linear load)
Frequency	Synchronized with utility in mains mode, 50/60 Hz $\pm 0.1\%$ in battery mode
Waveform	Pure sine wave
Power factor	1.0
Total harmonic distortion (THDv)	<1% (full linear load), <3% (full non-linear load according to IEC/EN62040-3)
Crest factor	3:1
Overload	<110%, 60mins; 125%:10 mins, 150%: 1min
BATTERIES	
DC voltage	± 240 VDC (Selectable 32 - 40pcs) - Derate capacity to 90% when the q'ty of batteries is set to 32pcs
Charging current	15A Max.
Charger Voltage precision	1%
Recharge time	Depend on the capacity of battery
SYSTEM	
Efficiency	96% Max.
Transfer time	0 ms
Max. number of parallel connections	4
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage, and fan failure
Communications	RS232, USB, RS485, battery cold start (Standard). Programmable dry contact (dry contact card), SNMP card, parallel kit (Optional)
Display	LED + 5 inches LCD touch screen
OTHERS	
Operation temperature	0 – 40°C
Storage temperature	-40°C – 70°C (without batteries)
Relative humidity	0 – 95% (non-condensing)
Altitude	< 1000m, Load derated 1% per 100m from 1000-2000m
IP rating	IP 20
Noise level at 1m	62dB Max.
Dimensions (W*D*H) mm	250*720*560
Net weight (kg)	42

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