

UPS online

10KVA – 30KVA

(3:3)

PF 1.0



Features

- 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%, 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 (Max.10 A & 20% output power)
- 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, EMP 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, Dry contacts, Parallel port
- Optional SNMP card, EMP card, Wi-fi card

Specifications

MODEL	HD-10KH3/10Ki	HD-15KH3/15Ki	HD-20KH3/20Ki	HD-30KH3/30Ki
Capacity	10KVA/10KW	15KVA/15KW	20KVA/20KW	30KVA/30KW
INPUT				
Rated voltage	380/400/415Vac (L-L)			
Voltage range	304 – 478Vac (L-L), full load 228V – 304Vac (L-L), 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, ±1Hz, ±3Hz, ±5Hz			
Total harmonic distortion (THDi)	< 3% (full 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 (L-L)			
Voltage regulation	± 1% (full linear load)			
Frequency	Synchronized with utility in mains mode, 50/60 Hz ±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%, 60min; 110%~125%,10min; 125%~150%,1min; >150%, 200ms			
BATTERIES				
DC voltage (KH3 model)	±240VDC (Selectable 32 - 40pcs)			
Inbuilt battery (Ki model)	(10+10) x 9AH	(20+20) x 7AH	(20+20) x 9AH	(15+15) x 9AH x 2 strings
Charging current	10A max			
Charger Voltage precision	1%			
Recharge time	Ki models: 90% capacity restored in 8 hours; KH3 models: depend on the capacity of battery			
SYSTEM				
Efficiency	95% 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, EPO, Dry contacts, Parallel port (Standard). SNMP card, EMP card, Wi-Fi card (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	55dB @ 100% load, 52dB @ 50% load		58dB @ 100% load, 55dB @ 50% load	
Dimensions (W*D*H),mm	250*720*560 (Ki) 250*720*560 (KH3)	250*800*700 (Ki) 250*720*560 (KH3)		250*840*930 (Ki) 250*840*650 (KH3)
Net weight (kg)	82 (Ki) / 31 (KH3)	131 (Ki) / 33 (KH3)	145 (Ki) / 33 (KH3)	215 (Ki) / 42 (KH3)

- Ki means standard model, KH3 means long time model
- Custom-made specifications are acceptable
- All specifications are subject to change without notice