

Online Rack Type UPS

10KVA – 60KVA

(3:3)

PF 1.0

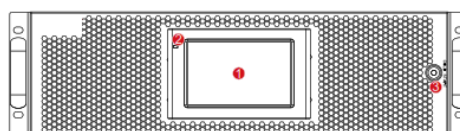


Features

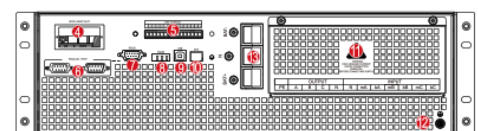
- High frequency online double conversion technology
- Advanced dual-core DSP control technology and 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 96%, energy saving rate is doubled
- Output power factor 1.0
- Dual input design, 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 (Max. 20A)
- 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
- 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

Rear panel

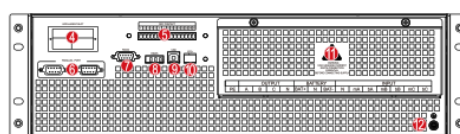
1. The touch screen LCD
2. LED
3. Battery start button
4. SNMP card (optional)
5. Dry contacts
6. Parallel port
7. RS232
8. RS485
9. USB
10. EPO
11. Terminal block
12. GND
13. Battery connector for 30KVA



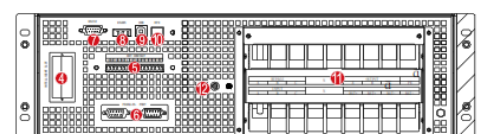
10-60kVA front appearance



30kVA back appearance



10-20kVA back appearance



40-60kVA back appearance

Specifications

MODEL	HD-10KR3	HD-15KR3	HD-20KR3	HD-30KR3	HD-40KR3	HD-60KR3
Capacity	10KVA/10KW	15KVA/15KW	20KVA/20KW	30KVA/30KW	40KVA/40KW	60KVA/60KW
INPUT						
Rated voltage	380/400/415Vac (3PH+N+PE)					
Voltage range	304 – 478Vac, 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, ±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 (3PH+N+PE)					
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	±240VDC (Selectable 32 - 40pcs)					
Charging current	10A Max.			15A Max.		20A Max.
Charger Voltage precision	1%					
Recharge time	Depend on the capacity of battery					
SYSTEM						
Efficiency	95% Max.			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, EPO (Standard). SNMP card, parallel kit (Optional)					
Display	LED + 5 inches LCD touch screen					
OTHERS						
Operation temperature	0 – 40°C					
Storage temperature	-40°C – 70°C					
Relative humidity	0 – 95% (non-condensing)					
Altitude	< 1000m, Load derated 1% per 100m from 1000-2000m					
IP rating	IP 20					
Noise level at 1m	<60dB			<65dB		
Dimensions (W*D*H) mm	440*660*130			440*750*130	440*730*130	440*800*130
Net weight (kg)	22	24		29	33	39

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