

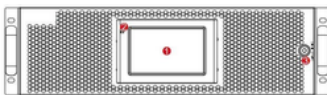
## 10-60KVA RACK (3:3)



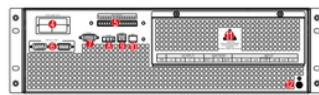
### Features

- High frequency online double conversion technology
- Advanced dual-core DSP control technology an 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99
- Active efficiency is improved to 96%; energy saving rate is doubled. Work efficiency up to 98% in ECO mode.
- 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
- Fan speed varies intelligent 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 settling, 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 update
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, dry contacts, SNMP card, and Wifi card.
- Linear derating in low voltage input, reducing battery discharging 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 logs for future check
- Standard RS232, USB, RS485, EPO, dry contacts, Parallel port
- Optional SNMP card and Wi-Fi card

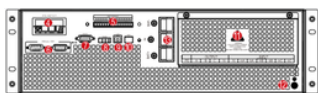
### Rear Panel



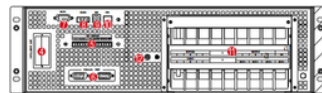
10-60kVA front appearance



30kVA back appearance



10-20kVA back appearance



40-60kVA back appearance

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 connectors for 30kVA

## Specifications

MODEL	HD9910RT	HD9915RT	HD9920RT	HD9930RT	HD9940RT	HD9960RT
Capacity	10kVA/ 10kW	15kVA/ 15kW	20kVA/ 20kW	30kVA/ 30kW	40kVA/ 40kW	60kVA/ 60kW
<b>INPUT</b>						
Rated voltage	380 / 400 / 415 Vac (3Φ + N + PE)					
Voltage range	304-478Vac, full load 228V~304Vac (L-L), load decrease linearly according to the min phase voltage					
Rated frequency	50 / 60 Hz (auto-sensing)					
Frequency range	40 ~ 70 Hz					
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					
Input current THDi	<3% (full linear load)					
Bypass overload	<125%: long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~ 400%: 1s; >400%, less than 200ms					
<b>OUTPUT</b>						
Rated voltage	380 / 400 / 415 Vac (3Φ + 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					
Crest factor	3:1					
Output voltage THDv	<1% (full linear load), <3% (full non-linear load according to IEC / EN62040-3)					
Overload	<110%: 60min; 110% ~ 125%: 10min; 125% ~ 150%: 1min; >150%: 200ms					
<b>BATTERIES</b>						
Long run model battery voltage	± 240 VDC (Selectable, 32 - 40pcs)					
Charger power	10A Max.			15A Max.		20A Max.
Charger voltage precision	1%					
Recharge time	Depend on the capacity of battery					
<b>SYSTEM</b>						
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					
Interface	Standard: RS232, RS485, USB, EPO, dry contacts, parallel port. Option: SNMP card, Parallel					
Display	cable LED+ 5 inch LCD touch screen					
<b>OTHERS</b>						
Operation temperature	0°C ~ 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 (1 meter)	<60 dB			<65 dB		
UPS dimension (WxDxH)(mm)	440 x 660 x 130			440 x 750 x 130	440 x 730 x 130	440 x 800 x 130
Net weight (kg)	22	24	24	29	33	39

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