

80-200KVA (3:3)



## Features

- High frequency on-line double conversion technology
- Advanced dual-core DSP control technology and 3-level technology
- Active Power Factor Correction Technology, input power factor up to 0.99
- System efficiency 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
- 50Hz/60Hz auto-sensing frequency
- 50Hz/60Hz frequency conversion mode
- Working efficiency up to 98.5% 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 number: 32~40 pcs
- Digitally controlled charger (Max.60 A)
- 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
- Selectable size LCD colorful touch screen (5 inches and 7 inches), 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 and 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, Wi-Fi card and parallel cable
- Automatic dust removal function, reduce the risk of PCB corrosion

## Applications

- IDC data exchange room
- ISP, Computer room
- Bank/ Bond Clearing Center
- Industrial Process Control Applications
- Precision instruments and equipment

## Specifications

MODEL	HD9980	HD99100	HD99120	HD99160	HD99200
Power rating	80kVA/80kW	100kVA/100kW	120kVA/120kW	160kVA/160kW	200kVA/200kW
<b>INPUT</b>					
Rated voltage	380/400/415Vac (3Φ + N + PE)				
Input voltage range	304~478Vac, full load				
	228V~304Vac, load decrease linearly according to the min phase voltage				
Rated frequency	50/60Hz				
Frequency range	40Hz~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				
Input current THDi	<3% (linear load)				
Bypass overload	125% long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%: <200ms				
<b>OUTPUT</b>					
Rated inverter voltage	380/400/415Vac (3Φ + N + PE)				
Voltage precision	±1% (linear load )				
Frequency	Synchronized with utility in mains mode, 50/60 Hz ±0.1Hz in battery mode				
Waveform	Pure sine wave				
Power factor	1				
Total harmonic distortion (THDv)	<1% (full linear load), <3% (full non-linear load according to IEC/EN62040-3 )				
Crest factor	3:1				
Inverter overload	<110%, 60min; 110%~125%: 10min; 125%~150%: 1min; >150%: 200ms				
<b>BATTERY</b>					
Long run model battery voltage	±240VDC(selectable, 32~40pcs)				
Charger current	30A	40A		60A	
Charger voltage precision	<1%				
<b>SYSTEM</b>					
Display	Default: 5 inch touch screen			Default: 7 inch touch screen	
Efficiency	96%				
Transfer time	0ms				
Interface	Standard: RS232, RS485, USB, Battery cold start. Option: programmable dry contact, SNMP card, parallel kit				
<b>ENVIRONMENTAL</b>					
Operation temperature	0~40°C				
Storage temperature	-40~70°C				
Relative humidity	0~95% (Non-condensing)				
Noise (1 meter)	< 70dB				
Altitude	<1000m, load derated 1% per 100m from 1000~2000m				
<b>OTHERS</b>					
Dimensions (Wx DxH)(mm)	360 x 800 x 1200	360 x 850 x 1200		440 x 850 x 1250	
Net weight (kg)	152	156	160	194	200

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