

10-60KVA TOWER (3:3)



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
- 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 times, 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 Wifi card

Specifications

MODEL	HD9910S	HD9910H	HD9915S	HD9915H	HD9920S	HD9920H	HD9930S	HD9930H	HD9940S	HD9940H	HD9960H
Capacity	10kVA/ 10kW		15kVA/ 15kW		20kVA/ 20kW		30kVA/ 30kW		40kVA/ 40kW		60kVA/ 60kW
INPUT											
Phase	3:3 (Standard). 3:1/1:1 (Optional)										
Rated voltage	380 / 400 / 415 Vac (3Φ + N + PE). (220 / 230 / 240 Vac (L-N) - Optional)										
Voltage range	228 ~ 478 Vac (132 ~ 275Vac (L-N) - optional)										
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% (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 / 415 Vac (3Φ + N + PE). (220 / 230 / 240 Vac (L-N) - Optional)										
Voltage regulation	± 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										
Crest factor	3:1										
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										
BATTERIES											
DC voltage	H model: ± 240 VDC (Selectable, 32 - 40pcs). Derate capacity to 90% when the number of batteries is set to 32pcs for 40KVA and 60KVA										
Batteries built-in (S model)	(10+10) x9Ah	/	(20+20) x7Ah	/	(20+20) x9Ah		(15+15)x9Ahx 2 strings		(20+20)x9Ahx 2 strings	/	/
Charger power	10A Max.						15A Max.			20A Max.	
Charger voltage precision	1%										
SYSTEM											
Efficiency	95% Max.						96% Max				
Transfer time	0 ms										
Max. number of parallel connections	4										
Interface	Standard: RS232 , RS485 , USB , dry contacts, parallel port. Option: SNMP card, Parallel kit										
Display	LED+ 5 inches LCD touch screen										
OTHERS											
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)	58 dB Max.						62 dB Max.				
UPS dimension (WxDxH)(mm)	250x720x560	250x800 x700	250x720 x560	250x800 x700	250x720 x560	250x840 x930	250x840 x650	350x800 x1280	250x720 x560	250x790x560	
Net weight (kg)	82	31	131	33	145	33	215	42	300	42	48

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