

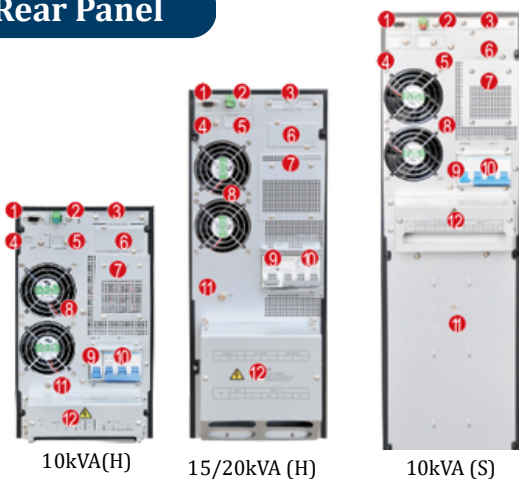
10-20KVA 3:1/1:1 TOWER



Features

- High frequency on-line double conversion technology
- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range (190 ~ 499 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries for H model)
- Digitally controlled charger
- High charging current available (Max.10 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

Rear Panel



- | | |
|-------------------------------------|--|
| 1. RS232 | 7. Reserved: for manual bypass or battery breaker or outlets etc |
| 2. EPO | 8. Fans |
| 3. Parallel port (Optional) | 9. Bypass Breaker |
| 4. USB (Optional) | 10. Input breaker |
| 5. Temperature detection (Optional) | 11. GND |
| 6. Intelligent Slot | 12. Terminal and Cover |

Available Options

- RS232 and intelligent slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, and EMD.

Spectifications

MODEL	HD9010S (3:1)	HD9010H (3:1)	HD9015H (3:1)	HD9020H (3:1)
Capacity	10 kVA/ 10 kW		15 kVA/ 15 kW	20 kVA/ 20 kW
INPUT				
Input wiring	Three-phase five-wire (3 Φ + N + PE)			
Rated voltage	380 / 400 / 415 Vac			
Voltage range	190 ~ 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 Vac (no derating)			
Rated frequency	50 / 60 Hz (auto-sensing)			
Frequency range	40 ~ 70 Hz			
Power factor	≥ 0.99			
Bypass voltage range	- 40% ~ + 15% (settable)			
THDi	$\leq 5\%$			
OUTPUT				
Output wiring	Single-phase three-wire (1 Φ + N + PE)			
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac			
Voltage regulation	$\pm 1\%$			
Frequency	Synchronized to bypass in mains mode ; 50 / 60 Hz \pm 0.1% Hz in battery mode			
Waveform	Pure sine wave			
Power factor	1			
Total harmonic distortion (THDv)	$\leq 1\%$ (linear load); $\leq 3\%$ (non-linear load)			
Crest factor	3:1			
Overload	105% ~ 110% for 10 min , 110% ~ 125% for 1 min , 126% ~ 150% for 30 s			
BATTERIES				
DC voltage	192 Vdc (192 ~ 240 Vdc settable)			
Number of battery	16 pcs (16 ~ 20 settable)			
Inbuilt battery (S model)	12V9Ah x 16	/	/	/
Charging current	S model: 1 A; H model: 5 A (default) , 1 ~ 5 A settable; 10 A (optional)			
Recharge time	S model : 90% capacity restored in 8 hours; H model: depend on the capacity of battery			
SYSTEM				
Efficiency	$\geq 94\%$ at 100% load, max. 95% at 60% load, $\geq 98\%$ in ECO mode			
Transfer time	0 ms			
Protections	Short-circuit , overload , overtemperature , battery low voltage , overvoltage, undervoltage and fan failure			
Max. number of parallel connections	4			
Communications	RS232, intelligent slot (standard). Dry contacts, SNMP card with RS485 and Modbus protocol / battery temperature compensation (optional)			
Display	LCD+ LED			
OTHER				
Operating temperature	0 $^{\circ}$ C ~ 40 $^{\circ}$ C			
Storage temperature	-25 $^{\circ}$ C - 55 $^{\circ}$ C (without battery)			
Relative humidity	0 - 95% (non-condensing)			
Altitude	≤ 1000 m, derating 1% for each additional 100 m			
IP rating	IP 20			
Noise level at 1 m	≤ 58 dB			
Dimensions (W x D x H) (mm)	191 x 495 x 711 (S)/ 191 x 495 x 350 (H)		191 x 495 x 515	
Net weight (kg)	64 (S), 18.5 (H)		26.5	

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