

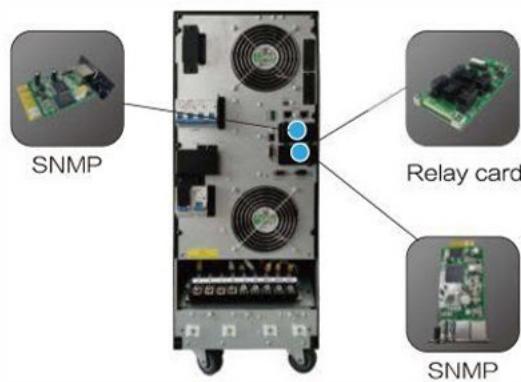
HD-10-20K2 3:1 series

3:1 phase PF 0.9

Capacity:10~20kVA

**Features**

- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Optimization battery group, the quantity of battery: 16/18/20pcs (32~40pcs is optional)
- Wide input voltage range: 208~478Vac
- Wide input frequency range : 40Hz~70Hz
- Input current harmonic:<3%
- Dual input source (Optional)
- Maximum charging current up to 18A (Settable)
- Support 3/1 and 1/1 operation
- Generator compatible
- ECO mode operation for energy saving
- Design with maintenance switch
- Cold start
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: RS232/RS485/USB/EPO /Dry contact port (Relay card/SNMP card/Parallel cable/Battery temperature sensor optional)



Technical Specifications:

MODEL	HD-10K2	HD-15K2	HD-20K2
Capacity	10kVA/ 9kW	15kVA/ 13.5kW	20kVA/ 18kW
INPUT			
Nominal voltage		380/400/415Vac (3PH+N+PE)	
Operating voltage range		208~478Vac ; 120~276Vac (176 ~ 276VAC: full load)	
Operating frequency range		40~70Hz (50/60Hz Auto-Sensing)	
Power factor		≥0.99	
Harmonic distortion (THD)		≤3% Linear load Max.voltage:220V:+25% (Optional+10%,+15%,+20%) 230V:+20% (Optional+10%,+15%) 240V:+15% (Optional+10%) Min.voltage:-45% (Optional-10%, -20%, -30%)	
Bypass voltage range			
Generator compatibility		Support	
FREQUENCY			
Frequency protection range		50/60Hz ± 10%	
OUTPUT			
Output voltage		220/230/240Vac (L+N+PE)	
Voltage regulation		± 1%	
Power factor		0.9	
Output frequency	Line Mode Bat. Mode	Synchronized with the mains (50/60 ± 0.1%)Hz	
Transfer time	AC mode to Bat.Mode Inverter to Bypass	0ms 0ms	
Output waveform		Pure Sinewave	
Crest factor		3:1	
Harmonic distortion (THDv)		≤2% Linear load ≤5% Non linear load	
Overload	AC mode Bat.mode Bypass mode	Load ≤ 110%: last 60min turn to bypass; ≤ 125%: last 10min turn to bypass; ≤ 150%: last 1min turn to bypass; ≥ 150% turn to bypass mode immediately Load ≤ 110%: last 10min; ≤ 125%: last 1min; ≤ 150%: last 5s; ≥ 150% shut down UPS immediately Breaker 2x32A	Breaker 2x50A Breaker 2x63A
EFFICIENCY			
Efficiency	Up to 93.5%, ECO mode: >98%	Up to 94.5%, ECO mode: >98%	
COMMUNICATIONS			
Communications	RS232/RS485/USB/EPO/Intelligent slot, SNMP card/Parallel ports and cable/Relay card/Battery temperature sensor optional	Support Linux, Windows, Unix,	
BATTERY			
Battery voltage		±120Vdc and 20pcs no power derating	
Charging current	14A Max.	16A Max. charging current can be set according to battery capacity	18A Max.
PHYSICAL			
Dimension W x D x H (mm)		250 x 580 x 655	
Net weight (kg)	33	37	38
ENVIRONMENTAL			
Operating temperature		0°C ~ 40°C	
Storage temperature		-25°C ~ 55°C	
Humidity range		0 ~ 95% (Non condensing)	
Altitude		<1500m, derating required when >1500m	
Noise level	<55dB at 1 Meter		<58dB at 1 Meter
STANDARDS			
Safety		IEC/EN62040-1	
EMC		IEC/EN62040-2, EN61000-3-11, EN61000-3-12	

Specifications are subject to change without prior notice.