

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 (THDi)		≤3% Linear load		
Bypass voltage range		Max.voltage:220V:+25% (Optional+10%,+15%,+20%)		
		230V:+20% (Optional+10%,+15%)		
		240V:+15% (Optional+10%)		
		Min.voltage:-45% (Optional-10%,-20%,-30%)		
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	Synchronized with the mains (50/60 ± 0.1%)Hz		
	Bat. Mode			
Transfer time	AC mode to Bat.Mode	0ms		
	Inverter to Bypass	0ms		
Output waveform		Pure Sinewave		
Crest factor		3:1		
Harmonic distortion (THDv)		≤2% Linear load		
		≤5% Non linear load		
Overload	AC 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		
	Bat.mode	Load≤ 110%: last 10min; ≤ 125%: last 1min; ≤ 150%: last 5s; ≥ 150% shut down UPS immediately		
	Bypass mode	Breaker 2x32A	Breaker 2x50A	Breaker 2x63A
EFFICIENCY				
Efficiency		Up to 93.5%, ECO mode: >98%	Up to 94.5%, ECO mode: >98%	
COMMUNICATIONS				
Communications		Support Linux, Windows, Unix, RS232/RS485/USB/EPO/Intelligent slot, SNMP card/Parallel ports and cable/ Relay card/Battery temperature sensor optional		
BATTERY				
Battery voltage		±120Vdc and 20pcs no power derating		
Charging current		14A Max.	16A Max.	18A Max.
		charging current can be set according to battery capacity		
PHYSICAL				
Dimension W x D x H (mm)		250 x 580 x 655		
Net weight (kg)		33	37	38
ENVIRONMENTAL				
Operating temperature		0℃ ~ 40℃		
Storage temperature		-25℃ ~55℃		
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.