



- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.8
- Wide input voltage range
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving (ECO)
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Optional maintenance bypass switch



MODEL	GH 31- 10K (L)		GH 31- 15K (L)		GH 31- 20K(L)	
PHASE	3 phase in / 1 phase out					
CAPACITY	10000 VA / 8000 W		15000 VA / 12000 W		20000 VA / 16000 W	
INPUT						
Nominal Voltage	3 x 400 VAC (3Ph+N)					
Voltage Range	190-520 VAC (3-phase) @ 50% load 305-520 VAC (3-phase) @ 100% load					
Frequency Range	46~54 Hz or 56~64Hz					
Power Factor	≥ 0.8 @ 100%					
OUTPUT						
Output Voltage	208/220/230/240VAC					
AC Voltage Regulation (Batt. Mode)	± 1%					
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz					
Frequency Range (Batt. Mode)	50 Hz ± 0.2 Hz or 60 Hz ± 0.2 Hz					
Current Crest Ratio	3:1 (max.)					
Harmonic Distortion	≤ 3 % THD (Linear Load) ; ≤ 5 % THD (Non-linear Load)					
Transfer Time	AC Mode to Batt. Mode	zero				
	Inverter to Bypass	zero				
Waveform (Batt. Mode)	Pure Sinewave					
EFFICIENCY						
AC Mode	91%		89%		89%	
Battery Mode	91%		88%		87%	
BATTERY						
Standard Model	Battery Type	12 V / 9 AH				
	Numbers	16 pcs		16pcs x 2 strings		
	Typical Recharge Time	9 hours recover to 90% capacity				
	Charging Current (max.)	1A Default, 1A/2A/4A/6A (Adjustable)				
Long-run Model	Charging Voltage	218.4 VDC ± 1%		273 VDC ± 1%		
	Battery Type	Depending on the capacity of external batteries				
	Numbers	2A Default, 1A/2A/4A/6A (Adjustable)				
	Charging Current (max.)	2A Default, 1A/2A/4A/6A (Adjustable)				
Long-run Model	Charging Voltage	218.4 VDC ± 1%		273 VDC ± 1%		
	INDICATORS					
LCD Panel	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
ALARM						
Battery Mode	Sounding every 4 seconds					
Low Battery	Sounding every second					
Overload	Sounding twice every second					
Fault	Continuously sounding					
PHYSICAL						
Standard Model	Dimension, D X W X H (mm)	419 x 190 x 688		815 x 250 x 826		
	Net Weight (kgs)	65		132		132
Long-run Model	Dimension, D X W X H (mm)	419 x 190 x 318		419 x 190 x 318		442 x 190 x 318
	Net Weight (kgs)	15		17		23
ENVIRONMENT						
Operation Humidity	0-95 % RH @ 0- 40°C (non-condensing)					
Noise Level	Less than 58dB @ 1 Meter		Less than 60dB @ 1 Meter			
MANAGEMENT						
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux, Unix, and MAC					
Optional SNMP	Power management from SNMP manager and web browser					

Product specifications are subject to change without further notice

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