Low frequency Home Inverter

Pure sine wave combined Inverter & Charger

High quality and availability of energy adapted to suit specific critical needs.

HI Series Inverter 1KW-6KW

Features

- Pure sine wave output
- Durable construction for long life under extreme environmental conditions
- Soft start capability for starting heavy loads
- New power factor corrected (PFC) charging
- Adjustable Charge current
- High charging current up to 85 Amp
- Four-steps intelligent charging control to recharging time
- Low idle current (less than 1 watt) conserves energy when no loads are present
- Automatically transfer between battery and line modes
- High surge capacity starts more difficult loads and handles overload conditions reliably

Inverter Selection Guide

Model	HI-2000	HI-3000	HI-4000	HI-6000	HI-7000
Capacity	1000W	2000W	3000W	5000W	6000W
LINE MODE SPECIFICATIONS					
Input Voltage	230Vac (utility or generator)				
Input Frequency	50Hz/60Hz (Auto detection)				
Output Voltage Waveform	Pure sine wave				
Over-Load Protection(SMPSload)	Circuit breaker				
Output Short Circuit Protection	Circuit breaker				
Efficiency (Line Mode)	>95%				
Auto Transfer Relay	30A				40A
Transfer Time	10ms (typical)				
Pass through without Battery	Yes				
Max Bypass Overload Current	30A				
INVERT MODE SPECIFICATIONS					
Output Voltage Waveform	Pure sine wave				
Power Factor	1				
Output Voltage (V)	230Vac ±10%				
Output Frequency (Hz)	50/60Hz ± 0.3Hz				
Auto Tracking Main Frequency (Hz)	50Hz @ 48-54Hz; 60Hz @ 58-64Hz				
Output Voltage Regulation	± 10% rms				
Efficiency	> 80%				
Over-Load Protection(SMPSload)	(110%<load<load150% ±10%; Fault (shutdown output) after 20s</load				
Surge Rating	3000VA	6000VA	9000VA		15000VA
Capable Of Starting Electric Motor	0.5 HP	1 HP	2 HP		3 HP
DC Input Voltage	12V/24V		24V/48V		48V
Min DC Start Voltage	10 / 20 / 40				
Low Battery Alarm	10.5Vdc ± 0.3Vdc for 12V battery; 21.0Vdc ± 0.6Vdc for 24V battery; 42.0Vdc ± 0.6Vdc for 48V battery				
Low DC input Shut-down	10.0Vdc ± 0.3Vdc for 12V battery; 20.0vdc± 0.6Vdc for 24V battery; 40.0Vdc± 0.6Vdc for 48V battery				
High DC input Alarm & Fault	16Vdc ± 0.3Vdc for 12V battery; 32Vdc ± 0.6Vdc for 24V battery; 64Vdc ± 0.6Vdc for 48V battery				
High DC input Recovery	15.5Vdc ± 0.3Vdc for 12V battery; 31.0Vdc ± 0.6Vdc for 24V battery; 62.0Vdc ± 0.6Vdc for 48V battery				
Power saver	Load ≤25W				
CHARGE MODE SPECIFICATIONS					
Input Voltage	230Vac / 1200Vac				
Input Voltage Range	155-265Vac				
Output Voltage	Same as input voltage				
Multi Stage Smart Charger (Amp)	65A/40A		45A/25A		40A
Charge Current Adjustable Gear	25%, 50%, 75%, 100%				
Charger Short Circuit Protection	Circuit breaker				
Over Charge Protection	Bat. V ≥ 15.7Vdc/31.4Vdc/62.8Vdc, beeps 0.5s every 1s & fault after 60s				
4 step digital controlled progressive charge					
Battery type		FastV	Fast V(*2 for 24v;*4 for 48v)		
Gel U.S.A		14.0	13.7		
A.G.M. 1		14.1	13.4		
A.G.M. 2		14.6	13.7		
Sealed lead acid		14.4	13.6		
Gel euro		14.4	13.8		
Open lead acid		14.8	13.3		
Calcium		15.1	13.6		
De-sulphation	15.5 for 4 hrs				
GENERAL SPECIFICATIONS					
Safety Certification					
Operating Temperature Range	0°C to 40°C				
Storage temperature	15°C below zero to 60°C				
Operation humidity	5% to 95%				
Audible Noise	60dB max				
Cooling					
Net Weight (KG)	16	21	24	38	40
Gross Weight (KG)	19	24	28	42	44
Inverter Size	362 x 218 x 179	442 x 218 x 179		598 x 218 x 179	

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