



Hybrid Inverters

Datasheet, Version 621



Features:

- Integrated charge controller
- Split-Phase in 4kW-12kW
- UPS and AC charger function
- Short-circuit protection against overload
- Under-voltage and over-temperature protection
- Over voltage, battery reverse connection (optional)
- High-low voltage protection
- AC Charging current 0-35A
- Configurable to battery or utility priority

Model		HI-1KW	HI-1.5 KW	HI-2KW	HI-3KW	HI-4KW	HI-5KW	HI-6KW	HI-8KW	HI-10 KW	HI-12 KW
Input	Rated Capacity	1KW	1.5KW	2KW	3KW	4KW	5KW	6KW	8KW	10KW	12KW
	Peak Power	3KW	4.5KW	6KW	9KW	12KW	15KW	18KW	24KW	30KW	36KW
	Commercial Power Range (VAC)	110V AC:83V-137V / 120V AC: 90V-150V 220V AC: 165V-275V/240V AC: 173V-287V							220V AC: 165V-275V 240V AC: 173V-287V		
	Mains Input Frequency Range	45-65HZ									
Solar	MPPT/PWM Solar Controller	30A/50A/60A/80A							80A/100A/120A		
	Solar Input	360W/720W/1440W/1920W/2400W/2880W/3840W							3840W/4800W/7680W/9600W		
	PV Input Voltage Range	14V-130V DC (12V SYSTEM)/38V-130V DC (24V SYSTEM)/ 72V-180V DC (48V SYSTEM)/144V-280V DC (96V SYSTEM)									
Battery	Type	Lead Acid (AGM, Gel) or Lithium									
	DC Voltage	12V/24VDC			24V/48V DC				48V/96V DC		
	DC Input Voltage Range	12V DC: 10.5-15.0V DC; 24V DC: 21-30V DC; 48V DC: 42.0-60.0V DC; 96V DC: 84-120V DC									
Charger	AC Charging	5-35A (Custom set 40A 50A Options)									
Output	Capable of Starting Electric Motor	0.5HP	1HP	1.5HP	2HP			3HP			
	AVR Voltage Range	110/120/220/230/240±10% (Autosensing)									
	Battery Over Voltage Protection	12V DC: 16.7V DC / 24V DC: 33.4V / 48V DC: 66.8V									
	Battery Over Voltage Alarm	12V DC: 15V DC / 24V DC: 30V / 48V DC: 60V									
	Battery Under Voltage Protection	12V DC: 10.5V DC / 24V DC: 21V / 48V DC: 42V									

	Battery Low Voltage Protection	12V DC: 10V DC / 24V DC: 20V / 48V DC: 40V									
	Transfer Time	Typical: 5ms (including detection time)									
	Temperature Protection	≥85°C alarm, ≥90°C machine shut off									
	Overload	IPS automatically shuts down if overload exceeds 120% of normal value for 10 seconds, IPS automatically resumes work if overload comes to rated load									
	Waveform	Pure Sine Wave									
	Frequency	Commercial power supply: shared frequency with the commercial inversion state: 60/50±0.5									
	Output Frequency Range (Electric supply mode)	Tracking automatically									
Temperature	Operating Temperature	0-70°C									
	Thermal Method	Cooling fan is intelligent control ≤42°C fan rotates slowly to ≥ 45°C fan rotates fast									
Physical Size	Dimensions (mm)	510*325*215				645*325*215			765*320*250		
	Weight (kg)	16	19	20	27	35	37	41	57	60	62