Low Frequency Off Grid Solar Inverter With AVR Function 300W - 5000W



Features

- Transformer based high reliability circuit design, combined with advanced SPWM technology.
- Pure sine wave output, suitable for all kinds of home appliances, especially for the motorized appliances.
- Built-in MPPT solar charge controller.
- Comprehensive management of solar charger and AC charger.
- Complete protection functions.
- Stabilized output voltage at AC mode (AVR mode).
- Designed for both Lead Acid battery and LiFePO4 battery.
- Optional RS232 / USB / WiFi communication port.
- Optional wired remote controller with display.

Technical Specifications

MODEL	PSH-821-300W	PSH-821-600W	PSH-821-1000W	PSH-821-1600W	PSH-821-2000W	PSH-821-3000W	PSH-821-4000W	PSH-821-5000W
INVERTER OUTPUT								
Rated Power	300VA/ 300W	600VA/ 600W	1000VA/ 1000W	1600VA/ 1600W	2000VA/ 2000W	3000VA/ 3000W	4000VA/ 4000W	5000VA/ 5000W
Battery Voltage	12VDC		12 / 24VDC	24VDC		24 / 48VDC	48VDC	
Surge Power	900VA	1800VA	3000VA	4800VA	6000VA	9000VA	12000VA	15000VA
Output Waveform	Pure Sine Wave							
Nominal Output Voltage	220 / 230VAC ±5% or 110 / 120VAC±5%							
Output Frequency	50Hz / 60Hz							
Efficiency	Max 85%							
Dual Output	Optional, for critical load and non-critical load							
AC MODE (AVR MODE)								
Nominal Input Voltage	220 / 230VAC or 110 / 120VAC							
Input Voltage Range	145-280VAC or 80-140VAC							
Input Frequency	50Hz / 60Hz							
AVR Output Voltage	220 / 230VAC ±10% or 110 / 120VAC±10%							
Output Frequency	Same as input frequency							
Transfer Time	Not more than 10ms							
BATTERY								
Battery Type	Flooded battery, AGM/Gel battery, LiFePO4 battery, Sodium battery							
Nominal Battery Voltage	12VDC		12VDC / 24VDC	24VDC		24VDC / 48VDC	48VDC	
Max Charging Voltage	12VDC: 14.4VDC default, 13.6-15VDC adjustable (0.1VDC incremental)							
	24VDC: 28.8VDC default, 27.2-30VDC adjustable (0.2VDC incremental)							
	48VDC: 57.6VDC default, 54.4-60VDC adjustable (0.4VDC incremental)							
Floating Charging Voltage	12VDC: 13.8VDC default, 13.2-14.4VDC adjustable (0.1VDC incremental)							
	24VDC: 27.6VDC default, 26.4-28.8VDC adjustable (0.2VDC incremental)							
	48VDC: 55.2VDC default, 52.8-57.6VDC adjustable (0.4VDC incremental)							
SOLAR CHARGER & AC CHARGER								
Type of Solar Charger	PWM / MPPT		MPPT					
Max. PV Input Voltage	75VDC		105VDC			150VDC		
MPPT Range	16-55VDC		16-75VDC / 32-75VDC	32-75VDC		32-135VDC / 60-135VDC	60-135VDC	
Max. PV Charging Current	25A / 50A		50A / 80A				50A / 80A	
Max. AC Charging Current	10A	15A	20A / 15A	20A		20A / 15A	20A	20A
Max. Total Charging Current	60A	65A	100A			100A	100A	100A
DISPLAY & PROTECTIONS								
LCD Display	AC current and power, output voltage, input voltage, operating frequency, charging current and power, battery voltage, PV power							
Inverter Protections	Over voltage, under voltage, short circuit, overload, over temperature, spike&surge							
Optional Built-in Combiner Box	Battery circuit breaker, PV input lightning protector, PV input circuit breaker, AC output circuit breaker, AC input RCCD (residual current circuit breaker)							
OPERATING CONDITIONS								
Storage Temperature	-10°C ~ 40°C							
Operating Temperature	-15°C ~ 40°C							
Operating Humidity	10%-90%, non-condensing							
PACKING								
Product Size (W x H x D)	380x260x165 mm			440x290x170 mm			500x300x200 mm	
Product Weight	7.5 kgs	11 kgs	13 kgs	15 kgs	17 kgs	20 kgs	22 kgs	24 kgs
Color box Size (L x W x H)	426x300x202 mm			518x348x218 mm			N/A	
Carton Size (L x W x H)	440x313x423 mm			532x360x236 mm			680x320x400 mm	
Qty / Carton	2 pcs			1 pc			1 pc	