GPS-M Solar Inverter

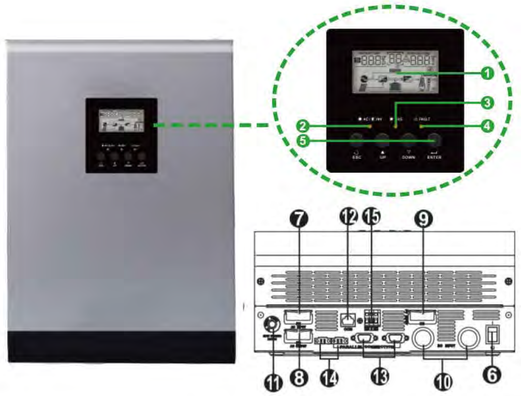
Features:

- Pure sine wave inverter
- Bullt-In MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel operation with up to 9 units (only available for 4K/5K)

Introduction:

Equipped with MPPT solar charge controller to maximize and regulate DC power from the solar array for the charging the battery bank. Transformerless design provides reliable power conversion in compact size and with high efficiency. With aluminum housing, integrated interface system, it's light and handy, making installation easier. It's the Ideal inverter for small PV plants, or individually for small houses, both indoors and outdoors.

LCD Display Information



1. LCD display
2. Status indicator
3. Charging indicator
4. Fault indicator
5. Function buttons
6. Power on/off switch
7. AC input
8. AC output
9. PV input
10. Battery input
11. Circuit breaker
12. RS232 Communication port
13. Parallel communication cable (only for parallel model)
14. Current sharing cable (only for parallel model)
15. Dry contact
16. USB communication port

Solar System Connection

GAMA-TRON®

Model	1000VA/800W	3000VA/2400W		5000VA/4000W
INPUT				
Voltage	230 VAC			
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%			
Surge Power	2000VA	6000VA		10000VA
Efficiency(Peak)	90%-93%	93%		
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
BATTERY & AC CHARGER				
Battery Voltage	24 VDC	24 VDC		48 VDC
Floating Charge Voltage	27 VDC	27 VDC		54 VDC
Overcharge Protection	31VDC	31VDC		60 VDC
Maximum Charge Current	10A/20A	20A/30A		20A/30A
SOLAR CHARGER				
Maximum PV Array Power	600 W	600W	1500W	3000 W
MPPT Range @ Operating Voltage	30VDC-66VDC	30VDC-66VDC	60VDC-115VDC	60VDC-115VDC
Maximum PV Array Open Circuit Voltaae	75 VDC	75 VDC	145 VDC	145 VDC
Maximum Charging Current	25A	25A	60A	60A/80A
Maximum Efficiency	98%			
Standby Power Consumption	2W			
PHYSICAL				
Dimension, D x W x H (mm)	128x272x355		140 x 295 x 540	
Net Weight (kgs)	7.4	8.0	10	13.5
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	0°C - 55°C			
Storage Temperature	-15°C - 60°C			

Product specifications are subject to change without further notice.

Pmax.generated from solar charger	25Amp 600W	25Amp 600W	60Amp 1500W	80Amp 4000W
Best Panel Configuration	500Wp (250Wp x 2pcs)	500Wp (250Wpx 2pcs)	1500Wp (250Wpx 6pcs)	3000Wp (250Wpx16pcs)

*Typical transfer time for parallel operation is 30ms.

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