



## Solar Energy Storage System GP



GP series is an all-in-one household photovoltaic energy storage system, which is integrating inverter, UPS, photovoltaic charging and grid charging functions.

This household energy storage system, with pure sine wave output, provides reliable power supply, is equipped with modular inverter units and lithium energy storage units to provide sufficient backup power.

This system is mainly used in solar energy storage, home energy storage and office backup energy fields.

Battery System Voltage: 48VDC

Power: 5.5KW

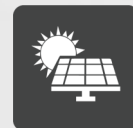
Battery capacity : 5KWH/10KWH

### Features

- Charging control & inverter & energy storage all-in-one;
- Intelligent UI display;
- Five functions automatic switch: grid charging, grid bypass, PV charging, inverter, UPS;
- Pure sine wave , suitable for a variety of loads;
- Lithium battery pack with battery management has a very long service life;
- With RS485 and RS232 communications, available for network management;
- Under-voltage, over-voltage, short circuit, overload, over-temperature and other multiple protection;
- GPRS and WIFI communication (optional);

### Protection

- Grid input over-voltage, low-voltage protection;
- PV over-voltage, short circuit, inverse grafting protection;
- Short-circuit protection for AC output;
- Overload protection for AC output;
- Inverter, battery, photovoltaic over-temperature protection;
- Battery over-charge, over-discharge, short-circuit protection;



PV



Home



RV



Yacht

Model	GP5500-248H	
Battery System Voltage	48VDC	
INPUT		
Voltage	230 VAC±5%	
Selectable Voltage Range	170-280 VAC (For Personal Computers)	
	90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Maximum AC Charge Current	80A	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
RATED POWER	5500VA/5500W	
Surge Power	11000VA/11000W	
Efficiency (Peak) PV to INV.	97%	
Efficiency (Peak) Battery to INV.	94%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	48 VDC	
Rated voltage	51.2V	
Rated energy	5120Wh	10240Wh
Maximum charging voltage	56.4V	
Discharge minimum voltage	44V	
Standard charging current	0.5C	
Standard discharge current	0.5C	
Maximum continuous charging	0.5C	
Maximum continuous discharge	1.0C	
Cycle life	>1600 times	
MPPT SOLAR CHARGER		
Maximum PV Array Power	6000W	
MPPT Range @ Operating Voltage	120 ~ 450 VDC	
Maximum PV Array Open Circuit	500 VDC	
Maximum Charging Current	110A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension, D x W x H (mm)	600*450*420	600*450*640
Net Weight (kgs)	/	/
Communication interface	RS485/RS232	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	