



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 options: 1KW/2KW/3KW/4KW/5KW/6KW

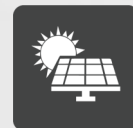
Battery capacity : 5KWH/10KWH

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		GP1000-248	GP2000-248	GP3000-248	GP4000-248	GP5000-248	GP6000-248
Inverter mode	Rated power（W）	1000W	2000W	3000W	4000W	5000W	6000W
	Rated input voltage	48VDC					
	Rated output voltage	120VAC/230VAC					
	Rated output frequency	50Hz±0.5%/60Hz±0.3%					
	Waveform	Pure sine wave					
	THD	<±3%					
	Efficiency	>88%					
	Surge power	3 times the rated power					
	Power factor	0.9-1					
Grid mode	Input voltage range	Option 1: 120/230VAC±15%					
		Option 2: 120/230VAC（-23%~+15%）					
	Input voltage frequency	40Hz-70Hz					
	Input waveform	Pure sine wave（Grid/Generator）					
	Short circuit protection	Breakers					
	Over voltage protection	16.0±0.3VDC（*2 /24VDC，*4/48VDC）					
	Efficiency	>95%					
	Charging current	Adjustable					

Solar Controller	Voltage	12V/24V/36V/48V Auto	
	No load draw	0.7 W~1.2W	
	Battery voltage range	9V~70V	
	Maximum input voltage	150V (25℃) 145V (-25℃)	
	MPP voltage range	Battery voltage+2V ~ 120V	
	Rated charging current	60A	
	Maximum input power	3200W	
Battery bank	Voltage	48VDC	
	Rated capacity	100Ah	200Ah
	Rated voltage	51.2V	51.2V
	Rated energy	5120Wh	10240Wh
	Charging stop point	56.4V	56.4V
	Discharge stop point	44V	44V
	Rated charging current	0.5C	0.5C
	Rated discharge current	0.5C	0.5C
	Maximum charge current	0.5C	0.5C
	Maximum discharge current	1.0C	1.0C
	Number of cycles	>1600 times	>1600 times
	Weight (kg)	52	104
Others	Operating temperature	0~40℃	
	Operating humidity	0%~95%	
	Noises	<50dB	
	Weight (kg)	/	/
	Size (mm) (L*W*H)	600*450*420	600*450*640