

## Portable Solar Generator



This is the perfect small portable Solar Powered Generator. It can supply a constant **500w 230V AC Output (700w Peak)** thanks to the Pure Sign Wave Inverter it uses internally. It has a large **1.5kWh (1500 watt hour) Long Life Lithium Battery** with BMS Internally. It can charge from Solar Power (via a solar panel plugged in) or it can charge from a standard 230V AC Wall Socket.

It can take up to a maximum of 290w worth of Solar PV input, at a maximum of 48v DC input. It can accept 18-48v for the Solar PV DC Input and the recommended Solar Panel setup to be used with this unit would be 1 x 130w, 2 x 130w, or 2 x 145w panels. The 2 x 145w panels will give the fastest charge for this unit. During the summer it would take an entire full sunny day approximately to fully charge this unit back to full battery level, and during winter time it will take approximately 1.5 days to full charge up this unit if you were using 2 x 130w / 145w panels.

It has a 3 Pin 230V AC Plug Socket + a 12v DC Output Socket.



### Hitek Solar NZ

A division of Hitek Systems Ltd

Phone: **0274-711-771 / 07-929-7488**

E-mail: [orders@hiteksystems.co.nz](mailto:orders@hiteksystems.co.nz)

*This product has great ecological & environmental benefits, as it will help reduce the number of disposable batteries that are discarded into land fill so frequently and is much more efficient than having a diesel / petrol generator running just to power some lights or charge your phone / laptop, etc.*

## PSG-1500 Detailed Specs:

- Pure sine wave output, factory set for Australian / NZ 230VAC Output.
- DSP chip control management with modular design.
- LED lights for indicating battery status and charging status at a glance.
- Multi-functional, integrated function of AC/DC charging and discharging.
- MPPT solar charger, inverter output and DC 12V output all integrated within PSG unit.
- High Quality Lithium Polymer battery for reliable long battery life with thousands of cycles without needing battery maintenance.
- Many built-in safety protection functions: low voltage, over voltage, high temperature, short circuit, and over load protection.



		Specifications	
		PSG-1500	
Physical Specs	Output Power	1.4 KWh	
	Weight	12.0Kg	
	Capacity	1536Wh	
	Color	Yellow	
	Dimension	L405*W215*H261	
	Input voltage	100~240VAC	
Charge Parameters	Input frequency	50/60HZ	
	Input power	327W/6A	
	Solar Charge Current	210W/4A	
	Solar board voltage	DC18-54V	
	AC charging time	7.5h	
Discharge Parameters	Output voltage	230-240±3%VAC	
	Output frequency	50/60HZ±0.5	
	Output power	500VA	
	Overload capacity	120% 10S	
	Discharge time	5.5h ( 250W)	
	Output waveform	Pure Sign Wave Output	
	Transfer efficiency	≥92%	
	MPPT efficiency	≥98%	
	On-board DC output	DC12V/6A (72W)	
Safety Features	Short circuit protection	YES	
	Low voltage protection	YES	
	High voltage protection	YES	
	Over-temperature protection	≥50 degrees Celsius	
	Low voltage cut-off	Solves the problem of self-discharging for long storage.	
	Battery Repair Function	When the voltage of the battery pack is too low, it is charged with low current.	
Working Environment	Cell Voltage Balance Function	YES	
	Working temperature range	0-45°C	
	Working humidity range	10%-90%	

