



Portable Solar Generator

(2000W~6000W)





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Low Frequency MPPT Solar Charger Lithium ion Batteries



Overheating Protection



Over Current Protection



Over Charge Protection



Over Discharge Protection



Short-Circuit Protection

Product Introduction

This portable solar generator is equipped with MPPT solar charge controller to maximize and regulate DC power from the solar panels(array) for charging the battery bank.

This unit consists of Lithium-ion battery pack that stores electrical energy, FM Radio, MPPT solar charge controller that can be efficiently charged via the sun in lightly cloudy weather, inverter converts 12V/24V to normal electricity. In addition, this unit does not require any gas to run and also does not emit any toxic fumes like standard gas generators can, not to mention it does not produce any sound. With the included solar panel(s), this unit is a complete solar electric production and storage unit.



MPPT Control Technology



AC/Solar Charging



Light Weight and Portable



USB Smart Charger



LCD Display and Easy to Operate



Multiple Output Voltage



Pure Sine Wave Output



Built-in Lithium-ion Battery

How IT Works:

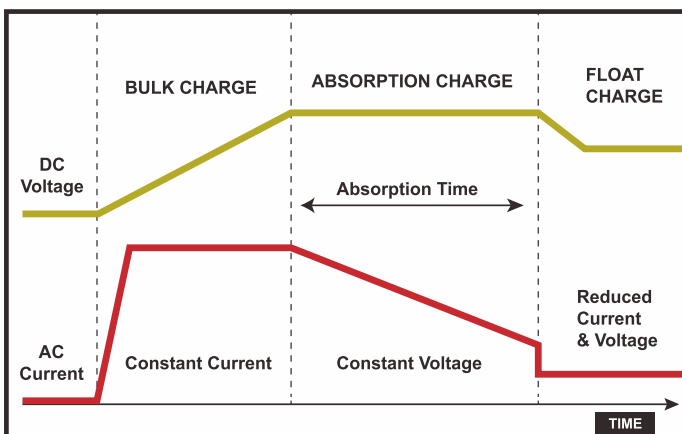


Product Features

- 1 Pure sine wave output
- 2 Widely input voltage range
- 3 4 working modes selection
- 4 8 fast-charging USB ports
- 5 Well-designed for ease of portability
- 6 Convenient with more power output like AC, USB, and 12VDC/24VDC
- 7 USB flash disk and memory card
- 8 Easy to set up even during an emergency
- 9 LCD display to show charging and dispensing progress
- 10 Auto restart while AC is recovering
- 11 Overload and short circuit protection
- 12 Compatible to mains voltage or generator power
- 13 Metal case to make the product difficult to deform to guarantee long lifetime usage
- 14 Smart multi-stage battery charger with optional equalization for optimized battery performance

Three Charging Stages

This unit charge controller has a 3-stage battery charging algorithm for a rapid, efficient and safe battery charging.



Bulk Charge:

This algorithm is used for day to day charging. It uses 100% of available solar power to recharge the battery and is equivalent to constant current.

Absorption Charge:

When the battery has charged to the Absorption voltage set-point, it undergoes an absorption stage which is equivalent to constant voltage regulation to prevent heating and excessive gassing in the battery.

Float Charge:

After Absorption Charge, the controller will reduce the battery voltage to a float voltage set point. Once the battery is fully charged, there will be no more chemical reactions and all the charge current would turn into heat or gas. Because of this, the charge controller will reduce the voltage charge to smaller quantity, while lightly charging the battery. The purpose for this is to offset the power consumption while maintaining a full battery storage capacity. In the event that a load drawn from the battery exceeds the charge current, the controller will no longer be able to maintain the battery to a Float set point and the controller will end the float charge stage and refer back to bulk charging.

Selection Guide

Model	PLI 2000-Li-A	PLI 2000-Li-B	PLI 3000-Li-A	PLI 3000-Li-B	PLI 4000-Li	PLI 5000-Li	PLI 6000-Li
PHASE	1-phase in/1 - phase out						
RATED POWER	2000W		3000W		4000W	5000W	6000W
Dimension DxWxH (mm)	626x366x800						
INPUT							
Voltage	110Vac/120Vac/127Vac / 220Vac/230Vac/240Vac (+25%, -25%)						
Frequency Range	50 Hz/60 Hz (Auto sensing)						
OUTPUT							
AC OUTPUT	AC Voltage Regulation (Batt. Mode)	110Vac/120Vac/127Vac / 220Vac/230Vac/240Vac \pm 5%					
	Frequency	50Hz/60Hz \pm 0.5Hz					
	Surge Power	6000W	9000W		12KW	15KW	18KW
	Efficiency (Peak)	86%			91%		
	Transfer Time	< 8 MS					
	Crest Factor	3:1					
	Waveform	Pure sine wave					
DC OUTPUT	DC Voltage	24VDC					
	High-voltage Protection	32VDC					
	High-voltage Recovery	30.4VDC					
	Low-voltage Protection	22VDC					
	Low-voltage Recovery	25.2VDC					
USB Interface	5VDC 3A						
BATTERY & AC CHARGER							
Battery Voltage	25.6VDC	51.2VDC	25.6VDC	51.2VDC	51.2VDC		
Battery Type	LiFePO4 Battery						
Battery Capacity	25.6V 150AH	51.2V 100AH	25.6V 150AH	51.2V 100AH	51.2V 180AH		
Floating Charge Voltage	29.2VDC	58.4VDC	29.2VDC	58.4VDC	58.4VDC		
Overcharge Protection	29.6VDC	59.2VDC	29.6VDC	59.2VDC	59.2VDC		
MPPT SOLAR CHARGER & AC CHARGER							
PV Array Open Circuit Voltage Range	25.6VDC:30VDC- 130VDC 51.2VDC: 60VDG 130VDC						
Max. PV Array Open Circuit Voltage	150VDC						
Max. Solar Charge Current	60A						
MPPT Efficiency	99.50%						
Start Charging Current	4VDC higher than battery voltage						
Low Input Voltage Protection Point	1VDC higher than battery voltage						
Max. AC Charge Current	0A -30A Adjustable						
PROTECTION							
Overload Protection	Full load 100%, Inverter alarm. Overload 120%, Inverter shut down output in 10s. Once the load back to normal, Inverter recovers output.						
Output Short Circuit	Shut down automatically.						
High AC Input Voltage	Turn off AC, transfer to inverter mode automatically.						
Low Battery Voltage	Shut down automatically. Once the AC input recover, inverter turn on and charge automatically.						

Powering the world



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