

# A More Sustainable Future



## Introduction

This series of product is a module design of inverter and built-in MPPT controller, which has the advantages of high conversion efficiency, low power consumption and strong load carrying ability. With intelligent control, customers can set charging mode, (Utility as complementary power) AC first mode or DC first mode, timed inversion mode and timed utility mode, timed on/off sleep mode. This is the currently the most advanced inverter & controller hybrid in the world.

## Application

1. Off-grid solar power system
2. Solar power system with utility as complementary power

## Feature

1. Easy to install. To configure a solar system, customers only need to connect it with solar panels and batteries;
2. CPU management ,intelligent control□modular design, User-friendly LCD display;
3. Built-in MPPT controller, high charging efficiency;
4. Low power consumption, high conversion efficiency;
5. Intellectual□multifunction, convenient for customers with different using environment to fully use the solar energy
6. External battery connection, convenient to expand back-up power time;
7. Strong load-carrying ability, low failure rate, easy maintenance and long service life (under proper operation, it may be as long as 5 years);
8. Perfect protection: low voltage protection, over voltage protection, overheat protection, short-circuit protection, overloads protection;
9. CE / EMC / LVD/ RoHS Approvals;

10. Two years warranty, life-long technical supports.

## Parameter

Parameter	Model	3000W
Rated Output Power		3000W
Peak Power		6000W
Battery (Lead-acid battery)		24V/48V(optional)
<b>Charging Parameter</b>		
Charge Mode	setting	PV charge
		PV charge + utility charge
MPPT Solar Controller	Voltage	24V/48V
	Current	40A
	Max PV Input Voltage	100V
	PV Charge Efficiency	95%~99%
	Max PV Input Power	24V:1136W, 48V: 2272W
Utility	AC Charge Current	0~15A
	Charge Mode	3-Stage Charging
<b>Inversion parameter</b>		
AC Output	Voltage	220V±3% or 230V±3 or 240V±3% or 100V±3% or 110V±3% optional
	Frequency	50Hz±0.5 or 60Hz±0.5 optional
Output wave type		Pure sine wave output, waveform distortion rate≤3
Overload ability		120% 1 min, 130% 10s
Power Consumption (under normal working mode)		0.4A
Power Consumption (under sleep mode)		1-6W
Inverter Conversion Efficiency		85%~92%
Utility Mode		
AC Input	Voltage	220V±35% or 110V+35% optional
	Frequency	The same as utility
AC Output	Voltage	220V±5% or 110V+5% optional
	Frequency	The same as utility
Overload Ability		120% 1 min 130% 10s
(AC first or DC first) priority		
UPS Output setting		AC first, DC standby
		DC first, AC standby
Switch Time		5ms AC to DC / DC to AC
Power On		Set by users
setting		Timed open / close AC output automatically
<b>General Parameter</b>		

Display	Display Mode	LCD+LED
	Display Information	Input voltage, output voltage, output frequency, battery capacity, Load condition, Status Information
Protection		Overload output, short-circuit, high-voltage input, low-voltage input, overheat
Environment	Temperature	-10°C~50°C
	humidity	10%~90%
	Altitude	≤4000m
Size W×D×H(mm)		438*208*413
Packing Size W×D×H(mm)		520*310*460
Net Weight (kg)		25
Gross Weight (kg)		27

## Connection Diagram

### I-P-HPC-Series System





## Team and Exhibition

