



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 | 4000W |
| Rated Output Power | | 4000W |
| Peak Power | | 8000W |
| Battery (Lead-acid battery) | | 48V |
| Charging Parameter | | |
| Charge Mode | setting | PV charge |
| | | PV charge + utility charge |
| MPPT Solar Controller | Voltage | 48V |
| | Current | 40A |
| | Max PV Input Voltage | 100V |
| | PV Charge Efficiency | 95%~99% |
| | Max PV Input Power | 2272W |
| Utility | AC Charge Current | 0~15A |
| | Charge Mode | 3-Stage Charging |
| Inversion parameter | | |
| 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 min130% 10s |
| (AC first or DC first) priority | | |
| UPS Outputsetting | | 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 |
| General Parameter | | |
| 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 | -10C50C |
| | humidity | 10%90% |
| | Altitude | 4000m |
| Size WxDxH(mm) | | 450*246*468 |
| Packing Size WxDxH(mm) | | 540*300*518 |
| Net Weight (kg) | | 35 |
| Gross Weight (kg) | | 41 |

Connection Diagram

I-P-HPC-Series System



I-P-HPC-Series Inverter+Solar Controller

