Low Frequency Power Inverter/Charger

EP3000 PLUS SERIES (1500-4KW)

EP3000PLUS series is a new generation pure sine wave inverter, AC charger (UL), dual 30A/s PV, Parallel (UL), MPPT (UL), multi-mode, wide working area battery, and all charge methods at the same time, and UL, CE and other international safety standards.

Inside Structures

PRODUCT FEATURES

SMART & INTELLIGENT FEATURES

- Pure sine wave output
- Priority: solar-utility-battery
- 3 Stage charging
- Power saving mode (Adjust)
- Overload and short circuit protection
- Battery temperature compensation (BTS)
- Battery over-voltage protection, power can be set to 16V/32V/64V
- Cold start function
- Fan only working mode
- Fan utility input intervention mode
- Wide range input voltage: 90VAC-280VAC/170VAC-280VAC/ 320VAC/360VAC
- Inverter frequency can be set to 50/60Hz
- Fan only charging cutoff points

Pure sine wave output

Perfectly driving inductive load equipment

Power saving mode

ADJUSTABLE TIME DEPENDING ON BATTERY BANK SIZE

Smart Battery Chargers

Smart battery charger design for optimized battery performance

Remote control

Remote control for inverter on/off and other settings.

The remote control is optional but very useful when the solar source charger is installed in a location that is not easily accessible, such as a garage or outdoor shed. The remote control allows you to turn the inverter on/off and check the battery voltage and charging current.

LCD display, easy to read from machine operation on LCD screen

Unit Mode

When idle, this unit has battery save the power mode and power charge control.

A utility mode the unit provides battery power from the utility, the schematics and LCD display as follows:

Battery Mode

In battery mode,the unit will provide power from the battery or PV. LCD indicator battery capacity.

Fault Mode

When inverter fault, the indicators and displays are as following figures.

Inverter fail part.

OVP: over-voltage

OCP: over-current shutdown

OLP: over-temperature

SPL: over- battery over voltage

Different working modes

The unit shows different working mode based on your need.

PRODUCT DETAILS

MUST POWER STAR HYBRID INVERTER SERIES

Product Appearance

Product Application

INVERTER SYSTEM CONNECTION

EP3000 PLUS inverter system, it can cum out battery as back up power for your home appliances when utility power is available or not available. It can also charge batteries and solar panels, etc. Please see a general idea below. For more customized system, please contact us, we will help you design your system based on your requirements.

PRODUCT PARAMETERS

MUST EASY HIGH FREQUENCY IS TRUE

Learn more about the product

MODEL	EP3000PLUS-24	EP3000PLUS-48	EP3000PLUS-48MPC
Inverter			
Rated Power	3000W	3000W	3000W
Surge Power	6000W	6000W	6000W
Nominal Battery Voltage	24VDC	48VDC	48VDC
Output Voltage Waveform	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Output Voltage Regulation	110VAC ± 5%	110VAC ± 5%	110VAC ± 5%
Output Frequency	50Hz / 60Hz ± 0.3Hz	50Hz / 60Hz ± 0.3Hz	50Hz / 60Hz ± 0.3Hz
Efficiency (Peak)	90%	90%	90%
Transfer Time	10ms typical	10ms typical	10ms typical
Low Battery Alarm	22VDC	44VDC	44VDC
Low Battery Shutdown	21VDC	42VDC	42VDC
Overload Protection	5s@≥150% load; 10s@110%~150% load	5s@≥150% load; 10s@110%~150% load	5s@≥150% load; 10s@110%~150% load
Charger			
Charging Algorithm	3 Stage	3 Stage	3 Stage
Charging Current (Utility)	60A	60A	60A
Charging Current (Generator)	30A	30A	30A
Charging Current (Solar)	80A	80A	80A
Max. PV Array Power	1500W	3000W	3000W
Max. PV Array Open Circuit Voltage	145VDC	145VDC	145VDC
PV Array MPPT Voltage Range	30VDC~115VDC	60VDC~115VDC	60VDC~115VDC
Battery Voltage Range	16VDC~32VDC	32VDC~64VDC	32VDC~64VDC
Max. Charging Current	140A	140A	140A
Max. Charging Power	3360W	6720W	6720W
Max. Efficiency	98%	98%	98%
Max. Charging Current (Utility + Solar)	140A	140A	140A
Max. Charging Power (Utility + Solar)	3360W	6720W	6720W
Max. Charging Current (Utility + Solar + Generator)	140A	140A	140A
Max. Charging Power (Utility + Solar + Generator)	3360W	6720W	6720W
Max. Charging Current (Generator + Solar)	140A	140A	140A
Max. Charging Power (Generator + Solar)	3360W	6720W	6720W
Max. Charging Current (Generator)	60A	60A	60A
Max. Charging Power (Generator)	1440W	2880W	2880W
Max. Charging Current (Solar)	80A	80A	80A
Max. Charging Power (Solar)	1920W	3840W	3840W
Max. Charging Current (Utility)	60A	60A	60A
Max. Charging Power (Utility)	1440W	2880W	2880W
Max. Charging Current (Utility + Generator)	60A	60A	60A
Max. Charging Power (Utility + Generator)	1440W	2880W	2880W
Max. Charging Current (Solar + Solar)	160A	160A	160A
Max. Charging Power (Solar + Solar)	3840W	7680W	7680W
Max. Charging Current (Utility + Solar + Solar)	160A	160A	160A
Max. Charging Power (Utility + Solar + Solar)	3840W	7680W	7680W
Max. Charging Current (Utility + Solar + Solar + Generator)	160A	160A	160A
Max. Charging Power (Utility + Solar + Solar + Generator)	3840W	7680W	7680W
Max. Charging Current (Generator + Solar + Solar)	160A	160A	160A
Max. Charging Power (Generator + Solar + Solar)	3840W	7680W	7680