



120A MPPT Solar Charge Controller Sunpolo 6KW Hybrid Inverter For Optimal Performance

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: TP
- Certification: CE
- Model Number: SI6
- Minimum Order Quantity: 10 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



SK-SUNPOLO 6KW On&off Grid MPPT Solar Inverter IP20

Product Specification

- Max. PV Input Power: 6000W
- Rated AC Output Power: 6000W
- Nominal DC Voltage: 360VDC/500VDC
- MPPT Range: 120-450VDC
- Max. Conversion Efficiency 96% (DC/AC):
- Max. Solar Charge Current: 120A
- Highlight: **120A mppt solar charge controller, 6KW mppt solar charge controller, 6000W mppt charge controller**



SK-SUNPOLO 6KW On&off Grid MPPT Solar Inverter IP20-1

Product Description

120A MPPT Solar Charge Controller Sunpolo 6KW Hybrid Inverter for Optimal Performance

MAIN FEATURES

	120A Solar Charger+AC Charging current		Work with or without battery
	Communication: RS232,USB,RS485,WIFI		USB On-the-go Function
	Real Hybrid Can Feed to Grid		Touch Button and LCD
	Parallel up to 9pcs optional		6KW PV input (Max. 27A)
	Dual AC & 12Vdc Output		Wifi Monitor
	Built inside with BMS		RGB Light

Product Description:

The Sunpolo 6KW Hybrid Solar Inverter is a versatile energy solution, designed for both grid-tied and off-grid applications. Featuring a pure sine wave output, it supports high PV input voltage (120-450VDC) and can work efficiently with or without batteries, providing continuous power supply for households and commercial systems. It integrates a 120A MPPT solar charge controller and allows up to 9 units to run in parallel. The unit is also equipped with multiple communication ports (RS232, USB, RS485, and WiFi) for flexible system monitoring. With its compact design and built-in BMS, this inverter ensures system longevity and user-friendly operation.

TECHNICAL PARAMETER	
MODEL	SUNPOLO 6KW
BASIC INFORMATION	
Max.PV Input Power	6000W
Rated AC Output Power	6000W
PV INPUT (DC)	
Nominal DC Volt/Max.DC Voltage	360MDC/500VDO
Start-up Voltage/Initial Feeding Voltage	120VDC
MPPT Voltage Range	120-450VDC
No.of MPPT Tracker/Max.Input Current	1/27A
AC INPUT (AC)	
AC Start-up Voltage/Auto Restart Volt	120VAC-140VAC/180VAC
Acceptable Input Voltage Range	90-280VAC/170-280VAC
Max.AC Input Current	40A
GRID OUTPUT IN GRID-TIE/HYBRID OPERATION (AC)	
Nominal Output Volt	220VAC/230VAC/240VAC, Single Phase dual AC output
Output Voltage Range	184V-265VAC or 195-253V (Selectable)
Nominal Output Current	26.0A
Power Factor	1
Max.Conversion Efficiency (DCIAC)	96%
BATTERY MODE OUTPUT (AC)	
Nominal Output Volt	230VAC dual AC output+1pc*12VDC/10A max.
Waveform	Pure sine wave
Efficiency(DC to AC)	93%

BATTERY&CHARGER	
Battery Type Supported	Lead Acid MRLA/AGM/Deep Cyde/Gel/Flooded/Tubular/Lithium-Ion
Nominal Battery Voltage	48VDC
Max.Solar Charge Current	120A
Max.AC Charge Current	120A
Max.Total Charge Current	120A
PHYSICAL	
Dimension,D*W*H(mm)	356*471*149
Packing Size,D*W*H(mm)	535*425*224, 1PC/CTN
Net Weight (kgs)	13.5
Gross Weight (kgs)	15
Parallel Functions Optional	Yes, optional, max.9pcs
Communication Interface	RS232,USB,RS485,WIFI

OPERATING ENVIRONMENT	
Humidity	5%to 95%Relative Humidity(Non-condensing)
OperatingTemperature	-10°C-50°C
Storage Temperature	-15°C-60°C

Application:

Ideal for residential or commercial solar energy systems.

Suitable for regions with unstable power grids, providing reliable power during outages.

Can be used in hybrid systems where grid connectivity is available but intermittent.

Shipping Methods

Supports global air and sea shipping.



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