



Seamless Integration Hybrid Inverters With Built In MPPT Solar Charge Controller

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CX
- Certification: CE
- Model Number: CXS62
- Minimum Order Quantity: 50 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- PV Input Voltage Range: 90-500VDC
- MPPT Solar Charge Current: 120A
- Output Power (SY6.2K Model): 6200W
- Maximum AC Charging Current: 140A
- Efficiency (DC To AC): 98%
- Communication Port: RS232/RS485/WIFI/GPRS
- Highlight: **120A Hybrid Inverters, 6200W Hybrid Inverters, 500V hybrid inverter with mppt charge controller**

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Product Description

Seamless Integration Hybrid Inverters with Built-In MPPT Solar Charge Controller



Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for iOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 120A MPPT Solar charge: max 6200W (for 3.6KW/4.2KW), max 6500W (for 6.2KW)
- High PV input voltage range(90~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

Product Description:

This hybrid inverter is designed to offer seamless integration for on/off-grid systems. Equipped with advanced features such as a built-in 120A MPPT solar charge controller and RGB lighting, this inverter is ideal for solar applications that require high efficiency and flexibility. With a PV input voltage range of 90-500VDC and the ability to run with or without batteries, it optimizes battery life through its smart charge design. The inverter also supports dual outputs and can manage loads efficiently, whether connected to the grid or operating independently.

INVERTER				
MODEL	SY3.6K		SY4.2K	SY6.2K
Phase			1-phase	
Maximum PV Input Power	6200W		6200W	6500W
Rated Output Power	3600W		4200W	6200W
Nominal DC Voltage/Maximum DC Voltage		120A		
GRID-TIE OPERATION				
PV INPUT(DC)				
Nominal DC Voltage/Maximum DC Voltage			360/500VDC	
Start-up Voltage/Initial Feeding Voltage			60VDC/90VDC	
MPPT Voltage Range			60~450VDC	
Maximum Input Current		1/28A		1/22A
GRID OUTPUT(AC)				
Nominal Output Voltage			220/230/240V AC	
Output Voltage Range			195.5~253VAC	
Nomina Output Current	15.7A		18.2A	27.0A
Power Factor			>0.99	

EFFICIENCY			
Maximum Conversion Efficiency(DC/AC)	98%		
TWO LOAD OUTPUT POWER			
Full Load	3600W	4200W	6200W
Maximum Main Load	3600W	4200W	6200W
MaximumSecond Load(battery mode)	1200W	1400W	2067W
Maximum Load Cut Off Voltage	26VDC	26VDC	52VDC
Maximum Load Return Voltage	27VDC	27VDC	54VDC
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage /Auto Restart Voltage	120-140VAC/180VAC		
Acceptable InputVoltageRange	90-280VAC or 170-280VAC		
Frequency Range	49~51±1Hz		
Maximum ACInput Current	30A	30A	40A
PVINPUT(DC)			
Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
MPPT Voltage Range	60~450VDC		

Maximum Input Current	1/18A	1/22A	
BATTERY MODE OUTPUT(AC)			
Nominal Output Voltage	220/230/240VAC		
Output Waveform	Pure sine wave		
Efficiency (DCto AC)	94%		
BATTERY&CHARGER			
Nominal DC Voltage	24VDC	48VDC	
Maximum Solar Charging Current	120A	140A	120A
Maximum ACCharging Current	100A	100A	100A
Maximum Charging Current	120A	140A	120A
HYBRIDOPERATION			
PVINPUT(DC)			
NominalDC Voltage/Maximum DCVoltage	360/500VDC		
Start-up Voltage /InitialFeeding Voltage	90VDC/120VDC		
MPPT VoltageRange	60~450VDC		
Maximum Input Current	1/18A	1/22A	
GRIDOUTPUT(AC)			
NominalDC Voltage	220/230/240VAC		
Output Voltage Range	195.5-253VAC		
Nominal Output Current	15.7A	18.2A	27.0A
AC INPUT			
AC Start-up Voltage /Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum ACInputCurrent	30A	30A	40A
Maximum ACCharging Current	100A		
GENERAL			
PHYSICAL			
Dimension,D×W×H(mm)	420*350*110		
Carton Dimension,D×W×H(mm)	500*415*180		
Net Weight(kgs)	8	8.5	9
Gross Weight(kgs)	9	9.5	10
INTERACE			
CommunicationPort	RS232/RS485/WIFVGPRS/LITHIUM BATTERY		
ENVIRONMENT			
Humidity	5%to 95%Relative Humidity(Non~condensing)		
Operating Temperature	-10°C~50°C		
STANDARD			
Compliance Safety	CE		

Application:

This hybrid inverter is suitable for residential, commercial, and industrial applications where reliable and flexible power management is needed. It can support home appliances, lighting systems, and other critical loads. The inverter's off-grid and on-grid working modes make it perfect for areas with unreliable grid power, as well as for solar-based power generation systems that aim to reduce reliance on the grid. Its dual output capacity and ability to work with or without batteries provide extended versatility in various energy setups.

Shipping Methods

Supports global air and sea shipping.



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