



12V 24V 36V 48V MPPT Charging Control Solar Charge Controller

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: CX
- Certification: CE
- Model Number: CXSE
- Minimum Order Quantity: 6 sets
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Maximum PV Input Voltage: 150V (at The Lowest Temperature), 138V (standard Temperature Of 25°C)
- Rated Charge Current: 30A / 40A / 50A / 60A / 80A / 100A
- System Voltage: 12V / 24V / 36V / 48V Auto
- MPPT Highest Accuracy: 99%
- Maximum Charging Efficiency: 97%
- Battery Type Compatibility: GEL, SLD, FLD, Lithium (customizable)
- Highlight: **48V mppt charge controller,
36V mppt charge controller,
12V mppt based solar charge controller**

Product Description

MPPT Charging Control Solar Charge Controllers for Maximum Efficiency

Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for iOS and Android
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Integrated design
- Built-in 120A MPPT Solar charge:max 6200W(for 3.6KW), max6500W(for 6.2KW)
- High PV input voltage range(60~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output



Built-in Lithium
battery automatic
activation



BMS
Protection



Integrated
design



Receptacle



RGB Light



Universal
wheel



Constant voltage
tecnology protects
the circuit



Dustproof

Product Description:

This advanced solar charge controller is designed for maximum efficiency and safety in managing solar power systems. It supports multiple battery types, including lithium and lead-acid batteries, with adjustable parameters for optimal charging and protection. Equipped with an LCD display for real-time system monitoring, it features a high-accuracy MPPT charging control mode to ensure maximum energy harvest from solar panels. The integrated forced air cooling and robust aluminum shell ensure durability and heat dissipation. It is suitable for off-grid and hybrid systems, supporting Bluetooth communication and temperature compensation for high-precision control.

MODEL SY-ESSM-3.6KW PLUS-100AH/200AH SY-ESSM-6.2KW PWUS-100AH		
Phase		
Maximum PVInput Power	6200W	6500W
RatedOutput Power	3600W/3600VA	6200W/6200VA
Maximum Solar Charging Current	120A	
GRID-TIEOPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC	
MPPTVoltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
cBIDoITPUT (AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195.5~253VAC	
Nominal Output Current	15.7A	27.0A
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Effidency(DC/AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	3600W 6200W	
Maximum Main Load	3600W	6200W
Maximum Second Load(battery mode)	1200W	2067W
Maximum Load Cut Off Voltage	26VDC	52VDC
Maximum Load Return Voltage	27VDC	54VDC
OFF-GRID OPERATION		

AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Frequency Range	49~51±1Hz		
Maximum ACInput Current	30A		40A
PVINPUT(DC)			
Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
MPPT Voltage Range	60-450VDC		
Maximum InputCurrent	1/18A		1/22A
BATTERY MODE OUTPUT(AC)			
Nominal Output Voltage	220/230/240VAC		
OutputWaveform	Pure sine wave		
Efficiency(DC to AC)	94%		
BATTERY &CHARGER			
Nominal DC Voltage	240VDC		48VDC
Maximum Solar Charging Current	120A	140A	120A
Maximum AC Charging Current	100A	100A	100A
Maximum Charging Current	120A	140A	120A
MODEL SY-ESSM-3.6KW PLUS-100AH/200AH SY-ESSM-6.2KWPLUS-100AH			
HYBRID OPERATION			
PV INPUT(DC)			
NominalDCVoltage/Maximum DCVoltage	360/500VDC		
Start-up Voltage/InitialFeeding Voltage	90VDC/120VDC		
MPPTVoltageRange	60-450VDC		
Maximum Input Current	1/18A		1/22A
GRID OUTPUT(AC)			
Nominal OutputVoltage	220/230/240VAC		
Output Voltage Range	195.5~253VAC		
NominalOutput Current	15.7A		27.0A
AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum AC Input Current	30A		40A
Maximum ACCharging Current	100A		
BATTERY			

MODEL 25.6V100AH 25.6V200AH 48V100AH			
Normal Charging Voltage	29.2V	29.2V	54.75V
Maximum Charging Current	100A(Recommended)	100A/200A (Recommended 100A)	100A(Recommended)
Discharge Termination Voltage	20A	20A	37.5A
Recommended Discharge Termination Voltage	224A	224A	42A
Maximum Discharge Current	100A	100A/200A	100A
Single Cell Charging Overvoltage Protection	3.65V	3.65V	3.65V
Overvoltage Protection For The Whole Battery	29.2V	29.2V	54.75V
Low Voltage Protection For Single Cell Discharge	2.5V	2.5V	2.5V
Low Voltage Protection For Whole Group Discharge	20V	20V	37.5V
Charge Overcurrent Protection	110A	110A/220A	110A
DischargeOvercurrent Protection	110A	110A/220A	110A
BMS Features	High accuracy celllevel voltage,current measuring Over-charge,over-discharge protection Short-circuit protection Self-learning intelligent SOC calculation Cell levelactive equalization Multiple communication type Parallel connect function		
Working Temperature	-20℃~+65℃		
Storage Temperature	0℃~+65℃		
GENERAL			

PHYSICAL			
Dimension,D×W×H(mm)	701*441*231		
Carton Dimension,D×W×H(mm)	800*530*340		
Net Weight(kgs)	42	59	58
Gross Weight(kgs)	44.7	61.7	60
INTERACE			
Communication Port	RS232/WIF/GPRS/LITHIUM BATTERY		
ENVIRONMENT			
Humidity	5%to 95%Relative Humidity(Non~condensing)		

STANDARD	
Compliance Safety	CE

Application:

This solar charge controller is ideal for use in residential solar power installations, off-grid cabins, and small commercial applications. It is perfect for managing solar power input and battery charging to ensure consistent energy availability in remote locations. It can also be used in mobile solar power setups like RVs and boats, where efficient power management and system longevity are critical.

Shipping Methods

Supports global air and sea shipping.

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