



## MPKZ Series Solar Charge Controller Multi Stage Charging Modes

### Basic Information

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



MPKZ40/60-1

### Product Specification

- Rated Charge Current: 30A, 40A, 50A, 60A
- System Voltage: 12V/24V/36V/48V Auto
- Maximum PV Input Power: Up To 5200W
- MPPT Highest Accuracy: 99%
- Maximum Charging Efficiency: 97%
- Operating Temperature Range: -20°C To 55°C
- Highlight: Solar mppt solar controller,  
36V mppt solar controller,  
48V mppt lithium charge controller



MPKZ40/60-2

## Product Description

### MPKZ Series Solar Charge Controller Multi-Stage Charging Modes for Maximum Efficiency

#### Product Description:

The MPKZ Series Solar Charge Controller is designed to provide precise and efficient energy management for solar systems. Equipped with a color LCD display and advanced MPPT technology, this controller ensures optimal power tracking and conversion for both 12V/24V/36V/48V systems. With a cast aluminum casing for enhanced durability and a waterproof touch screen for easy operation, the MPKZ controller can handle various environmental conditions, making it suitable for long-term use in residential, commercial, or off-grid solar setups.

Mode MPKZ40 MPKZ60			
INPUT			
Maximum PVOpenCircuit Voltage	150V(at the lowest temperature),138V(at a standard temperature of 25°)		
Minimum PVVoltage	20V/40V/60/80V		
Rated Charge Current	30A	40A	50A 60A
OUTPUT			
System Voltage	12V/24V/36V/48VAuto		
Rated DischargeCurrent	15A	20A	25A 30A
Own Consumption	s35mA(48V)		
MPPT Highest Accuracy	99%		
Maximum Charging Efficiency	97%		
Charging Control Mode	Multi-stage(MPPT,Absorption,Float,Equalization,CV)		
Float Charge	13.8V/27.6V/41.4V/55.2V		
Absorption Charge	14.4V/28.8V/43.2V/57.6V		
Equalization Charge	14.6V/29.2V/43.8V/58.4V		
Load Disconnection(LVD)	10.8V/21.6V/32.4V/43.2V		
Load Connection(LVR)	12.6V/25.2V/37.8V/50.4V		
Load Control Mode	Normal,Light control,Light and timing control,Timing control,Reverse light control		
Light Control Point Voltage	5V/10V/15V/20V		
BatteryType	GEL,SLD,FLD and USER(default),Lithium batteries customization 3 series 3.7V,4 series 3.7V,4 series 32V,5 series 3.2V		

OTHER	
Human Interface	Color LCD with backlight,touch buttons
Cooling Mode	Cast aluminum casing
Wiring	≤25mm <sup>2</sup> /High current copper terminal≤25mm <sup>2</sup> (3AWG)
Temperature Probe	Linelength 3 meters
Communication Mode	RS485,RJ45 port
Working Temperature Range	-20~+55°C
Storage Temperature Range	-30~+80°C
Humidity	10%-90%No condensation
Note:Please operate at the ambient temperature allowed by the controlle.If the ambient temperature exceeds the allowable range of thecontroller,please derate it	
PACKAGE	
Specification	30A-40A 50A-60A
Set/Carton	6Pcs 5Pcs
Weight/Carton	14Kg 15Kg
Measurement	685×320×325mm 810×350×265mm
Volume/Carton	0.07CBM 0.08CBM

#### Application:

The MPKZ Series Solar Charge Controller is ideal for solar power systems in residential homes, small businesses, and off-grid applications. It supports a variety of battery types, including GEL, SLD, FLD, and Lithium batteries, making it versatile for different energy storage setups. Its multi-stage charging modes (MPPT, Absorption, Float, Equalization, CV) ensure maximum battery life and efficiency. Whether you are powering a home or running a small-scale off-grid system, the MPKZ controller provides the reliability and performance needed for optimal solar energy management.

#### Shipping Methods

Supports global air and sea shipping.



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