



30A-100A MPK3 Intelligent Solar Charge Controller For Solar Systems

Our Product Introduction

for more products please visit us on fuhaosolar.com

Basic Information

- Place of Origin: China
- Brand Name: CX
- Certification: CE RoHS
- Model Number: CXMPK3
- Minimum Order Quantity: 8 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Rated Charge Current: 30A-100A
- Maximum PV Input Power: Up To 5200W (48V)
- Maximum Charging Efficiency: 99%
- MPPT Highest Accuracy: 97%
- System Voltage: 12V/24V/36V/48V Auto
- Working Temperature Range: -20°C To +55°C
- Highlight: **100A intelligent solar charge controller, 30A intelligent solar charge controller, MPK3 controlling solar energy charge**



Product Description

MPK3 Solar Charge Controller Maximum Protection and Long Lifespan for Solar Systems



MPPT



Protection



Parameters adjustable



LCD Color display



Button mod



Forced air cooling



Temperature compensation



RS485/RJ45 port (Optional)

Product Description:

The MPK3 series solar charge controller is a multi-stage MPPT controller that maximizes the energy harvest from your solar panels while offering advanced protection and high efficiency. This product is designed for use in solar power systems to manage battery charging and energy distribution efficiently. Its advanced LCD color display and button interface make operation intuitive, while it supports a range of battery types including GEL, SLD, FLD, and customizable lithium batteries. With forced air cooling and temperature compensation, this charge controller ensures reliable performance under varying environmental conditions.

Mode MPK3-40 MPK3-60 MPK3-80 MPK3-100								
INPUT								
Maximum PVOpen Circuit Voltage			150V(at the lowest temperature),138V(at a standard temperature of 25)					
Minimum PVVoltage			20V/40V60/80V					
Rated Charge Current			30A	40A	50A	60A	80A	100A
PVMaximum Input Power	12V	390W	520W	650W	780W	1040W	1300W	
	24V	780W	1040W	1300W	1560W	2080W	2600W	
	36V	1170W	1560W	1950W	2340W	3120W	3900W	
	48V	1560W	2080W	2600W	3120W	4160W	5200W	
OUTPUT								
System Voltage			12V/24V/36V/48V Auto					
Rated Discharge Current			20A	30A	40A	50A		
Own Consumption			≤35mA(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,Lightcontrol,Light and timing control,Timing control,Reverse light contro					
Light Contro Point Voltage			5V/10V/15V/20V					
Battery Type			GEL,SLD,FLD and USER(default),Lithium batteries customization 3 series 3.7V,4 series 3.7V,4 series 3.2V,5 series 3.2V					

OTHER			
Human Interface	Color LCD with backlight,3 buttons		
Cooling Mode	AL alloy heat sink and cooling fan		
Wiring	≤25 mm²/High current copper terminal≤25mm²(3AWG)		
Temperature Probe	Line length 3 meters		
CommunicationMode	RS485,RJ45 port		
Working Temperature Range	-20~+55℃		
Storage Temperature Range	-30~+80℃		
Humidity	10%-90%No condensation		
Note:Please operate at the ambient temperature allowed by the controller.f the ambient temperature exceeds the allowable range of the controller,please derate it .			
PACKAGE			
Specification	30A-40A	50A-60A	80A-100A
Set/Cartron	8Pcs	4Pcs	4Pcs
Weight/Cartron	23Kg	15Kg	18.5Kg

Measurement	590×480×300mm	510×340×320mm	565×435×375mm
Volume/Carton	0.08CBM	0.06CBM	0.09CBM

Application:

The MPK3 solar charge controller is ideal for off-grid and hybrid solar systems, including residential solar setups, commercial installations, and solar-powered outdoor lighting systems. Its versatile voltage range (12V/24V/36V/48V Auto) and multi-stage charging make it perfect for managing energy storage systems that require consistent power regulation. The system is designed to provide maximum protection against overcharging, undercharging, and other energy management challenges, ensuring a long lifespan for both the controller and the connected batteries.

Shipping Methods

Supports global air and sea shipping.



RICHGOOD ENERGY CO.,LTD



willa@fuhaosolar.com



fuhaosolar.com

Rm3810 Baoli E Building Pa Zhou Haizhu district Guangzhou