

MCJ48 Series

MPPT

Solar charging controller

CE FC RoHS



Product introduction

- Ipandee MCJ-48 series is a high quality solar controller specially developed for communication base stations and off-grid power stations in no-power areas. The solar controller supports MPPT tracking, stable performance and high conversion efficiency; and easy to install, easy to maintain; It has been widely used in mobile, telecommunication, tower and other communication base stations in many provinces of the country.



Laminated base station



Off-grid pure photovoltaic base station



Photovoltaic off-grid power station



Core Advantage

- Maximum power 99%, conversion efficiency $\geq 97\%$;
- Photovoltaic wide voltage input: 65~250VDC;
- Support multi-channel photovoltaic input, no need for distribution box or convergence box;
- Rated power: 3kW~13kW, to meet a variety of different installed capacity of power stations;
- Support man-machine interaction, parameter setting and data display functions;
- Photovoltaic daily, monthly, total power generation can be recorded cumulatively;
- Multiple protection: with anti-reverse current, anti-surge, anti-reverse connection and other protection functions;
- Adopt standard Modbus protocol, RS485 communication, support secondary integrated development, support 4G remote monitoring;
- Built-in input/output circuit breaker, Dc meter can be built-in;
- Protection class IP55, support wall-mounted pole, easy to address, easy to install.

MCJ48 Series	MCJ4860	MCJ4880	MCJ48100	MCJ48120	MCJ48160	MCJ48200	MCJ48240
MPPT efficiency	≥ 99%						
Installation	Wall Mounted /Pole Mounted						
Heat dissipation method	Air cooling						
Input Characteristics							
Input operating voltage range *	65~250VDC (Recommended 120V~250V)						
Start charging Vstart-pv	Vbat+3V						
Low voltage protection Vlow-pv	Vbat+2V						
Input Protection Voltage	250Vdc						
Input Protection Recovery Voltage	245Vdc						
Rated input power**	3360W	4480W	5600W	6720W	8960W	11200W	13440W
Component Access	Supports 2 equal accesses	Supports 4 equal accesses			Supports 8 equal accesses		
Charge Characteristics							
Output DC voltage range	Output range:42V ~ 60VDC (Factory default output:56VDC)						
Battery management	Output charging parameters and protection parameters can be set						
Output DC current	0~60A (Adjustable)	0~80A (Adjustable)	0~100A (Adjustable)	0~120A (Adjustable)	0~160A (Adjustable)	0~200A (Adjustable)	0~240A (Adjustable)
Output Voltage Setting	Setting of equalizing voltage, floating voltage						
Electricity measurement	1. Built-in DC meter function; 2. Controller comes with metering;						
Display & Communication							
Communication method	Standard Modbus protocol						
Monitoring Methods	Remote monitoring with 4G module or PC software						
Protection function							
Photovoltaic input protection	Input over-voltage and under-voltage protection, reverse connection protection, anti-reverse current protection						
Output protection	Voltage regulator protection, battery reverse connection protection, battery disconnection protection and over-under-voltage protection, etc.						
General Protection	Thermal over-temperature protection and over-temperature load reduction operation, environmental over-temperature protection, etc.						
Other Parameters							
Product Size	49*43*20cm				49*47*29.5cm		
Product weight (kg)	10.8	12	12.2	12.2	22.5	22.5	22.5
Operating Temperature	-20℃ ~+55℃						
IP Protection Rating	IP54				IP43		
Altitude	≤ 3000m						