



# MC serise

## MPPT solar charge controller

MC2420/2430/2440/2450N10



### For off-grid application

- Connect to photovoltaic and supply power to batteries

### User-Friendly

- Easy to install and simple to use
- Natural cooling, absolutely quiet

### Safety

- Complete charge protection mechanism
- High quality components for stable operation

### All-in-One

- Supports multiple battery types
- Highly integrated, helps you save space and wire

### Efficient

- MPPT with up to 99.9% efficiency
- Support solar panel 2 in series/more in parallel

### Intelligent

- Supports TTL, CAN (RV-C) communication
- Supports Bluetooth with mobile APP

| MODEL                               | MC2420N10  | MC2430N10                             | MC2440N10                        | MC2450N10                           | CAN BE SET |
|-------------------------------------|--|---------------------------------------|----------------------------------|-------------------------------------|------------|
| <b>PV INPUT</b>                     |  |                                       |                                  |                                     |            |
| Max.Voltage of Open Circuit         | 100Vdc   |                                       |                                  |                                     |            |
| MPPT Voltage Range                  | (Battery voltage+2V)- 72V  |                                       |                                  |                                     |            |
| Max.PV Input Power                  | 260W / 12V<br>520W / 24V   | 400W / 12V<br>800W / 24V              | 550W / 12V<br>1100W / 24V        | 660W / 12V<br>1320W / 24V           | ✓          |
| <b>BATTERY</b>                      |  |                                       |                                  |                                     |            |
| Battery Type                        | FLD/GEL/LI/SLD/User Defined  |                                       |                                  |                                     |            |
| Rated Battery Voltage               | 12/24Vdc   |                                       |                                  |                                     |            |
| Battery Voltage Range               | 9~32Vdc  |                                       |                                  |                                     |            |
| Rated Charging Current              | 20A  | 30A                                   | 40A                              | 50A                                 | ✓          |
| MPPT Charging Mode                  | Buck   |                                       |                                  |                                     |            |
| <b>EFFICIENCY</b>                   |  |                                       |                                  |                                     |            |
| MPPT Tracking Efficiency            | >99%   |                                       |                                  |                                     |            |
| Max. Charging Conversion Efficiency | ≤98%   |                                       |                                  |                                     |            |
| <b>ACCESSORIES</b>                  |  |                                       |                                  |                                     |            |
| Matching                            | RM-6/ RM-7 Display screen、BT-2 Bluetooth module、USB to TTL Connecting wire、TTLCommunication line (TTLtoTTL)、BTS Temperature sensor、CN-4 (TTL to 485)、GP-2 Internet of things module、6-core communication cable |                                       |                                  |                                     |            |
| <b>GENERAL</b>                      |  |                                       |                                  |                                     |            |
| Communication                       | TTL  |                                       |                                  |                                     |            |
| Weight                              | 0.65kg(1.43lb)   | 0.83kg (1.83lb)                       | 1.04kg (2.3lb)                   | 1.335kg (2.94lb)                    | ✓          |
| Dimension                           | 150*105.6*61.5mm<br>(5.9*4.16*2.4in)   | 150*105.6*67.5mm<br>(5.9*4.16*2.66in) | 183*127*65.5mm<br>(7.2*5*5.58in) | 183*127*69.5mm<br>(5.9*4.16*2.74in) |            |
| Protection Degree                   | IP32   |                                       |                                  |                                     |            |
| Operating Temperature Range         | -35°C~60°C (-31°F~140°F)   |                                       |                                  |                                     |            |

