



## MA series solar charge controller

MA2430N15/2440/2460/4830



- ### For off-grid application
- Can be connected to both PV 、 battery and load
  - Multiple load operating modes to meet diverse needs
- ### User-Friendly
- Easy to install and simple to use
  - Natural cooling, absolutely quiet

- ### Safety
- Complete charge and discharge 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 RS485 and CAN (RV-C protocol)
  - Supports Bluetooth with mobile APP

MODEL	MA2430N15	MA2440N15	MA2460N15	MA4830N15	CAN BE SET
<b>PV INPUT</b>					
Max.Voltage of Open Circuit	150Vdc				
MPPT Voltage Range	(Battery voltage+2V)~110Vdc				
Max.PV Input Power	400W/12V 800W/24V	520W/12V 1040W/24V	800W/12V 1600W/24V	400W/12V 800W/24V 1200W/36V 1600W/48V	✓
<b>BATTERY</b>					
Battery Type	USE/FLD/GEL/LI/SLD/ User Defined				✓
Rated Battery Voltage	12/24Vdc			12/24/36/48Vdc	
Battery Voltage Range	8~32Vdc			8~64Vdc	✓
Rated Charging Current	30A	40A	60A	30A	✓
MPPT Charging Mode	Buck				
<b>LOAD</b>					
Load Type	Resistive load 、 Capacitive load、 Inductive load				
Rated Load Voltage	Equal to battery voltage 12V/24V/36V/48V				
Rated Load Current	30A	40A	40A	30A	
Load Working Mode	Light control,Light control + Time control, manual control (default), Debugging mode, Normal open				✓
<b>EFFICIENCY</b>					
MPPT Tracking Efficiency	>99%				
Max. Charging Conversion Efficiency	85%~98%(Correspond load power10%~100%)				
<b>COMMUNICATION</b>					
TTL、RS485 (default)	TTL Baud rate 9600kps , RS485 ,port				✓
CAN (optional)	Optional (RV-C Protocol)				✓
Bluetooth (optional)	External module BT-2 with mobile app				
<b>GENERAL</b>					
Weight	2.3kg(5.1lb)		3.4kg(7.5lb)	3.6kg(7.9lb)	
Dimension	260*216*83.2mm(10*8.5*3.27in)		260*216*98.5mm(10*8.5*3.87in)		
Protection Degree	IP32				
Operating Temperature Range	-35°C~65°C (-31°F~149°F)				

