



MA 12-48V

Solar power Charging & Discharging Controller



- MPPT tracking efficiency up to 99.9%
- Supports multiple battery types
- Simultaneous connection of PV and battery to supply DC loads
- Highly integrated to save installation space and wiring for the user
- Supports various communication modes

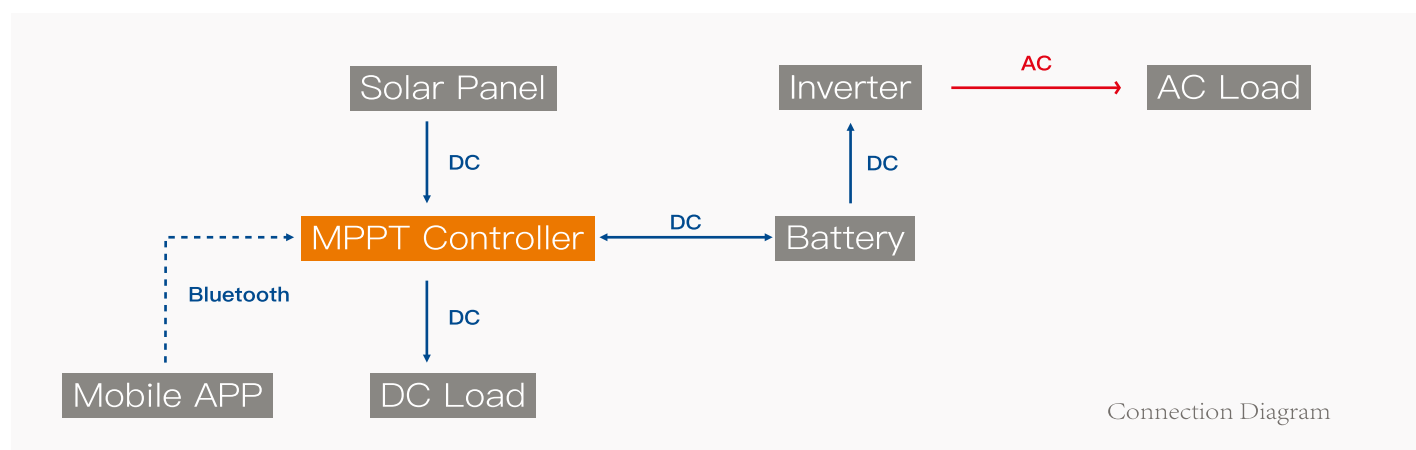
ABOUT SRNE

- SRNE 15 years in PV industry, committed to independent R&D and production.
- Holds over 200 patents in energy storage, with unique industry-leading technologies.
- Chooses top-quality international components to deliver high-value products to customers.
- Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

MODEL	MA2430N15	MA2440N15	MA2460N15	MA4830N15
PV INPUT				
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
BATTERY				
Battery Type	USE / FLD / GEL / LI / SLD(default)			
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			
LOAD				
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			
EFFICIENCY				
MPPT Tracking Efficiency	>99%			
Max. Charging Conversion Efficiency	85%~98%(Correspond load power10%~100%)			
COMMUNICATION				
TTL、RS485	TTL Baud rate 9600bps, RS485 port			
CAN	RV-C protocols			
Bluetooth	Built-in Bluetooth			
GENERAL				
Weight	2.3kg		3.4kg	3.6kg
Dimension	260*216*83.2mm		260*216*98.5mm	
Protection Degree	IP32			
Operating Temperature Range	-35°C~65°C			
Certification	RoHS/CE-LVD/CE-EMC/cETLus UL1741&CSA C22.2/FCC sDOC			

PROTECTION

With equipment over-temperature protection, battery over-temperature protection, input over-power protection, PV input over-voltage, PV input reverse connection protection, night-time anti-reverse charging protection.



Connection Diagram