SRNE

3 YEARS WARRANTY

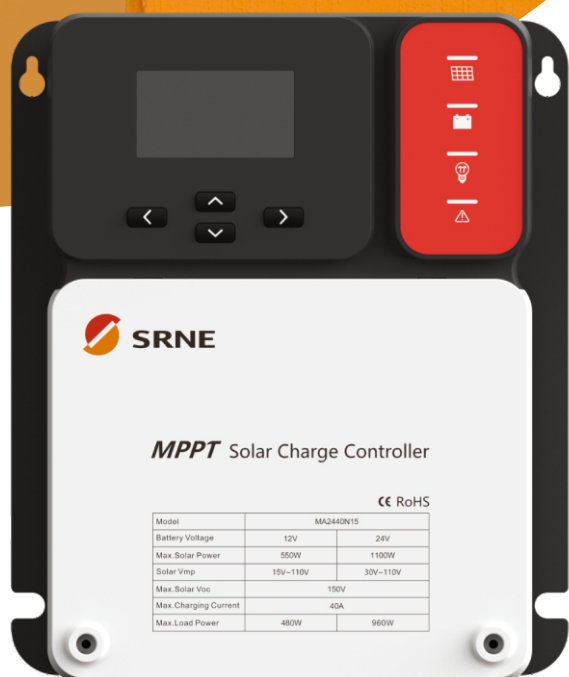# MA 12-48V

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

MPPT Solar Charge Controller

CE RoHS

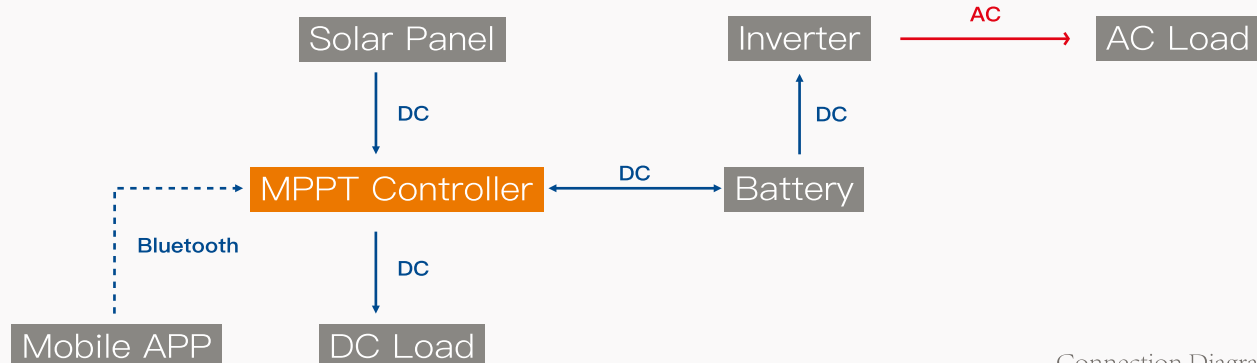| Model	MA2440N15	
Battery Voltage	12V	24V
Max.Solar Power	550W	1100W
Solar Vmp	15V~110V	30V~110V
Max.Solar Voc	150V	
Max.Charging Current	40A	
Max.Load Power	480W	960W

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.

Green Energy Changes the World

V1.0

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