

20AMP MPPT

Solar Charge Controller

20A

Rated Charging Current

25A

Max. PV Input Current

9 - 35 VDC

Battery Voltage Range

100 VDC

Max Solar Input Voltage



FEATURES



Automatically detects 12V or 24V DC system voltages.



Compatible with various deep cycle battery options: Sealed, Gel, Flooded, and Lithium.



Innovative MPPT technology with high tracking efficiency up to 99% and peak conversion efficiency of 98%.



Electronic protection against reverse polarity, over-charging, over-discharging, overload, short-circuiting, and reverse current.



LCD screen and multiple LED indicators for displaying system operation information, customizable parameters, and error codes.



Features diverse load control, also capable of charging over-discharged lithium batteries.



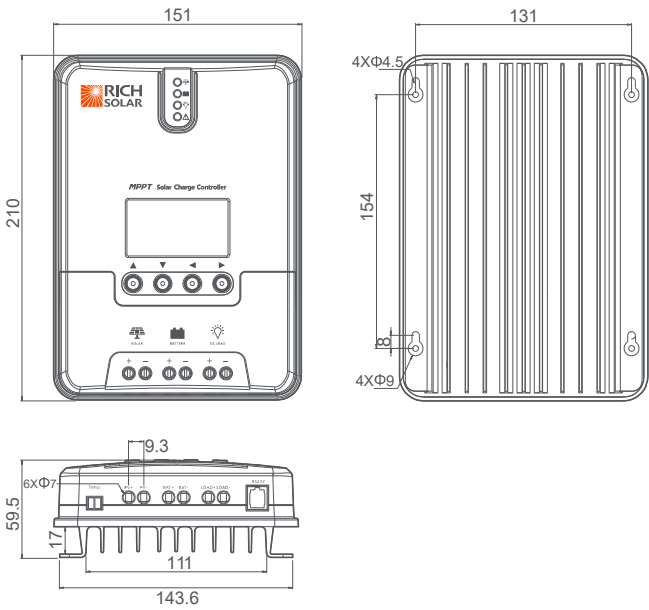
Die-cast aluminum design allows for efficient heat dissipation.



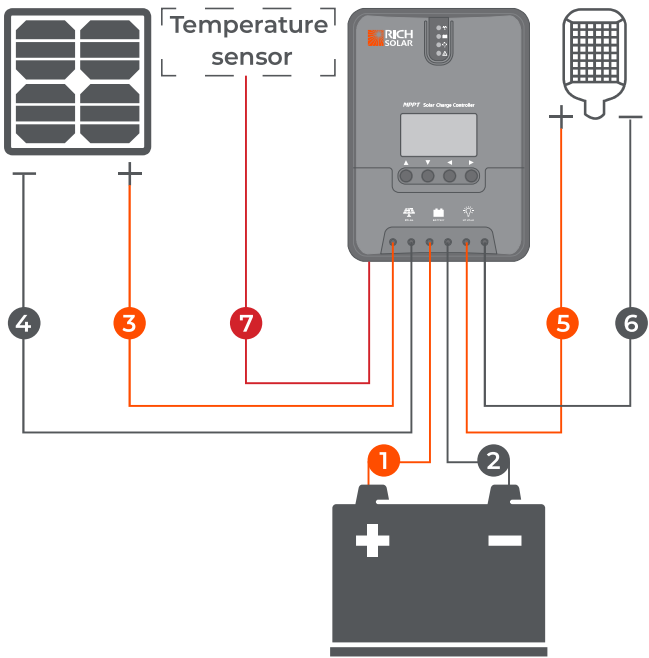
RS232 port to communicate with BT-1 Bluetooth module.



Advanced maximum power point tracking algorithm can quickly locate the best working point in the I-V curve to significantly improve the system's energy efficiency.



PRODUCT DIMENSIONS (MM)



PRODUCT CONNECTION DIAGRAM

SPECIFICATIONS

Nominal System Voltage	12V/24V Auto Recognition
Rated Battery Current	20A
Rated Load Current	20A
Max. PV Input Short Current	25A
Max. Battery Voltage	32V
Max Solar Input Voltage	100V(25°C), 90V(-25°C)
Charge Circuit Voltage Drop	≤0.26V
Discharge Circuit Voltage Drop	≤0.15V
Max Terminal Size	10AWG
Rated Load Current	10% to 90% NC
Net Weight	3.08lb
Overall Dimension	8.27 x 5.94 x 2.34in
Battery Wire Diameter	5mm ²
Load Wire Diameter	5mm ²
No-load Loss	0.7W to 1.2W
Battery Voltage	9V to 35V
Max. Power Point Voltage Range	Battery Voltage +2V to 75V
Max. Capacitive Load Capacity	1000uF
Max. Photovoltaic System Input Power	260W/12V, 520W/24V
Conversion Efficiency	≤98%
MPPT Tracking Efficiency	>99%
Temperature Compensation Factor	-3mV//2V Default
Operating Temperature	-35°C to +45°C
Protection Degree	IP32
Communication Method	RS232
Altitude	≤3000m

OUTPUT CHARACTERISTIC CURVE

