60AMP MPPT

Solar Charge Controller

60A
Rated Charging Current

70A
Max. PV Input Current

9 – 70 VDC
Batter Voltage

150 VDC
Max Solar Input Voltage

FEATURES

Automatically detects 12V/24V/36V/48V 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.

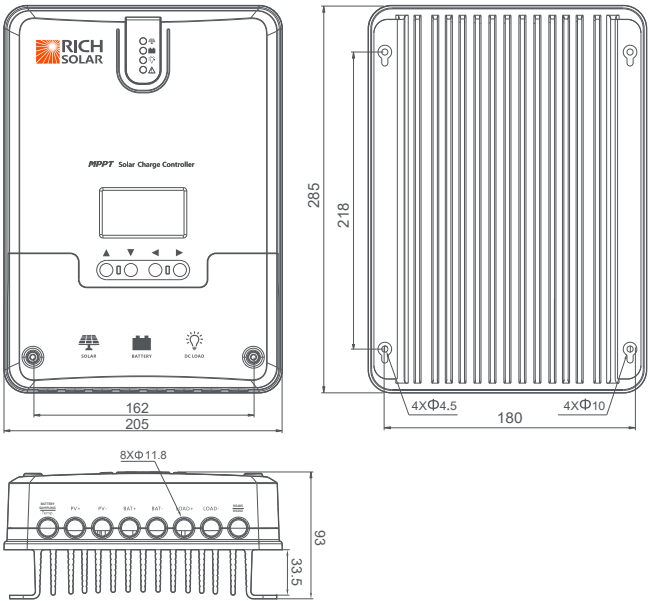Features diverse load control, also capable of charging over-discharged lithium batteries.

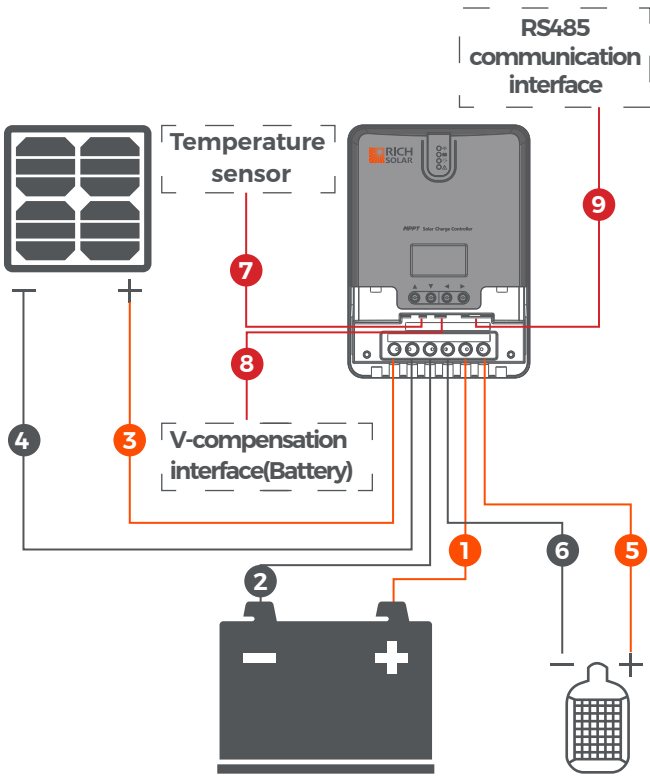Die-cast aluminum design allows for efficient heat dissipation.

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.

SPECIFICATIONS

Nominal System Voltage	12V/24V/36V/48V Auto Recognition
Rated Battery Current	60A
Rated Load Current	20A
Max. PV Input Short Current	70A
Max. Battery Voltage	70V
Max Solar Input Voltage	150V(77°F), 145V(-13°F)
Charge Circuit Voltage Drop	≤0.26V
Discharge Circuit Voltage Drop	≤0.15V
Max Terminal Size	<11mm
Load Adjustment Range	10% to 90% (NC)
Net Weight	7.94lb
Overall Dimension	11.2 x 8.1 x 3.7in
Battery Wire Diameter	>15mm²
Load Wire Diameter	<5mm²
No-load Loss	0.7W to 1.2W
Battery Voltage	9V to 70V
Max. Power Point Voltage Range	Battery Voltage +2V to 120V
Max. Capacitive Load Capacity	10000uF
Max. Photovoltaic System Input Power	800W/12V, 1600W/24V 2400W/36V, 3200W/48V
Conversion Efficiency	≤98%
MPPT Tracking Efficiency	>99%
Temperature Compensation Factor	-3mv/°C/2V Default
Operating Temperature	-31°F to 113°F
Protection Degree	IP32
Communication Method	RS232 RS485
Altitude	≤3000m

PRODUCT DIMENSIONS (MM)

PRODUCT CONNECTION DIAGRAM

OUTPUT CHARACTERISTIC CURVE

SPECIFICATIONS INCLUDED IN THIS DATASHEET ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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