

# **40AMP MPPT**

Solar Charge Controller

**40A** Rated Charging Current

**50A** Max. PV Input Current

9 - 35 VDC Battery Voltage Range

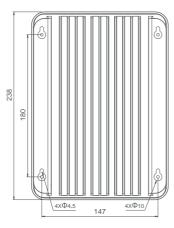
**100 VDC** Max Solar Input Voltage

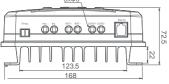


## **FEATURES**

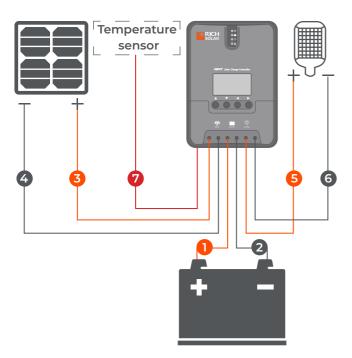








**PRODUCT DIMENSIONS (MM)** 



### PRODUCT CONNECTION DIAGRAM

#### **SPECIFICATIONS**

| Nominal System Voltage              | 12V/24V Auto Recognition  |
|-------------------------------------|---------------------------|
| Rated Battery Current               | 40A                       |
| Rated Load Current                  | 20A                       |
| Max. PV Input Short Current         | 50A                       |
| 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                   | 8AWG                      |
| Rated Load Current                  | 10% to 90% NC             |
| Net Weight                          | 4.41lb                    |
| Overall Dimension                   | 9.37 x 6.81 x 2.85in      |
| Battery Wire Diameter               | 10mm <sup>2</sup>         |
| Load Wire Diameter                  | 5mm²                      |
| 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 Powe | r 550W/12V, 1100W/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**

