

RENOGY

CHARGE CONTROLLER



ROVER PG MPPT 60A SOLAR CHARGE CONTROLLER

The Renogy 60A Rover PG MPPT Charge Controller is an intelligent positive ground controller. Built with protections against reverse polarity, short-circuiting, overheating, and more, this MPPT controller is also capable of self-diagnosing itself in the event of an error. Its durable shell protects against general wear and tear, and aluminum heat sink allows for heat dissipation. The Rover 60A PG can automatically detect 12V/24V/36V/48V systems and can handle various battery options such as GEL and Lithium. Pair this charge controller with the Renogy BT-1 and Renogy BT app to view your system's performance in real time and make parameter changes straight from your smart device.

- Automatically detect 12V/24V/36V/48V DC system voltages
- Smart 4 Stage MPPT charging (Bulk, Boost, Float and Equalization) and temperature compensation increases battery life and improves system performance
- Deep cycle Sealed, Gel, Flooded and Lithium battery options
- Electronic Protections: Overcharging, Over-Discharging, Overload and short circuit
- Customizable charging voltages, RS232 port to communicate with BT-1 Bluetooth module
- Features diverse load control; also capable of charging over-discharged lithium batteries.

Included Components

Remote Temperature Sensor

Measures the temperature at the battery and uses this data for very accurate temperature compensation



SPECIFICATION

Parameters	
Nominal System Voltage	12V/24V/36V/48V Auto Recognition
Rated Charge Current	60A
Rated Load Current	20A
Battery Voltage	9V-70V
Max. PV Input Voltage	150 VDC (25°C), 145 VDC (-25°C)
Battery Type	Sealed (AGM), Gel, Flooded and Lithium
Max. Solar Input Power	800W/12V; 1600W/24V; 2400W/36V; 3200W/48V
Self-Consumption	0.7W – 1.2W
Temperature Compensation	-3mV/°C /2V
Dimensions	285 x 205 x 93mm; 11.22 x 8.07 x 3.66in
Mounting Holes	4 x Ø10mm
Max Terminal Size	4 AWG; 25mm ²
Net Weight	3.6 kg; 7.9 lbs
Working Temperature	-35°C to +45°C; -31 °F to 113 °F
Storage Temperature	-35°C to +75°C; -31 °F to 167 °F
Humidity Range	≤ 95% (NC)
Enclosure	IP32
Altitude	<3000m
Communication	RS232, RS485
Certification	FCC Part 15 Class B; CE; RoHS

Battery Charging Parameters (Temp:25°C)						
Battery Type	SEALED	GEL	FLOODED	LI (LFP)	USER	RANGE
High Voltage Disconnect	16V	16V	16V	16V	16V	9-17V
Equalization Voltage	14.6V	----	14.8V	----	14.6V	9-17V
Boost Voltage	14.4V	14.2V	14.6V	14.4V	14.4V	9-17V
Float Voltage	13.8V	13.8V	13.8V	----	13.8V	9-17V
Boost Return Voltage	13.2V	13.2V	13.2V	13.2V	13.2V	9-17V
Low Voltage Reconnect	12.6V	12.6V	12.6V	12.6V	12.6V	9-17V
Under Voltage Warning	12.0V	12.0V	12.0V	12.0V	12.0V	9-17V
Low Voltage Warning	11.1V	11.1V	11.1V	11.1V	----	9-17V
Discharging Limit Voltage	10.6V	10.6V	10.6V	10.6V	----	9-17V
Over-Discharge Delay Time	5s	5s	5s	5s	----	1-30s
Equalization Duration	2 hours	----	2 hours	----	----	0-10 Hrs.
Equalization Interval	30 Days	----	30 Days	----	----	0-250 Days
Boost Duration	2 hours	2 hours	2 hours	----	----	1-10 Hrs.



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