RENOGY
TRUSTED ENERGY SOLUTIONS

Rover 2 Pro Compact MPPT Charge Controller with Bluetooth

RCC-M10020-B2-G1/RCC-M10030-B2-G1

Description

Rover 2 Pro is a compact MPPT solar charge controller built for reliable Off-Grid power. Up to 65% smaller than the previous generation, it fits easily in RVs, boats, and tight electrical compartments.

Built-in Bluetooth and an LCD screen provide real-time monitoring and control with no extra modules required. With 97% peak conversion efficiency and an advanced MPPT algorithm that excels in low-light conditions, Rover 2 Pro helps maximize solar harvest throughout the day.



Key Features

- **Up to 65% Smaller Than Previous Gen**

Free up valuable space for batteries, inverters, and other system components.

- **Built-In LCD and Bluetooth**

Monitor and manage your system more conveniently at home or on the go.

- **High-Efficiency MPPT Charging**

97% peak conversion efficiency and an advanced MPPT algorithm maximize solar harvest in changing light conditions.

- **Parallel Expansion**

Expand charging capacity with automatic load sharing for greater system flexibility.

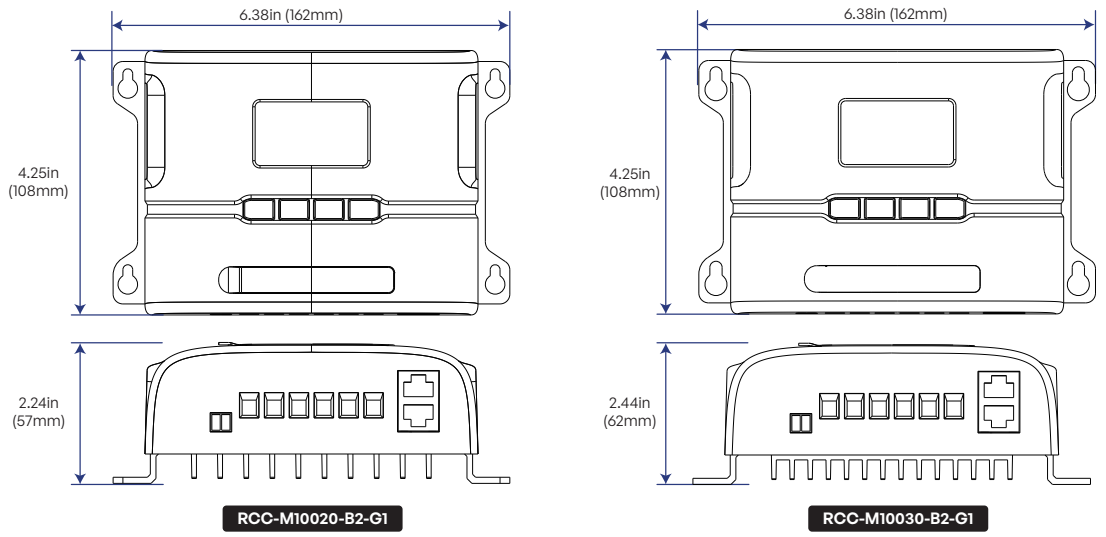
- **CAN Connectivity for RV-C Systems**

Simplify system integration and enable centralized management across compatible RV power components.

- **Broad System Compatibility**

Supports lithium, AGM, gel, flooded, and user-defined battery profiles, with automatic voltage detection for compatible system configurations.

Module Diagram



*Product dimensions are subject to minor adjustments.

Technical Specifications

Electrical Data

Model	RCC-M10020-B2-G1	RCC-M10030-B2-G1
Battery Type	Lithium, AGM, Gel, Flooded, and User Profile	Lithium, AGM, Gel, Flooded, and User Profile
System Voltage	12/24V	12/24V
Rated Charge Current	20A	30A
Input Voltage Range	15-100VDC	15-100VDC
Max Solar Input Voltage	100VDC	100VDC
Max Solar Input Power	12V/300W, 24V/600W	12V/450W, 24V/900W
Max MPPT Tracking Efficiency	99%	99%
Max Conversion Efficiency	97%	97%
Temperature Compensation	-3mV/°C/2V	-3mV/°C/2V
Self Consumption	≤0.5W	≤0.5W

General Data

Communication	Built-In Bluetooth, RS485, RV-C	Built-In Bluetooth, RS485, RV-C
Operating Temperature Range	-30°C to 65°C	-30°C to 65°C
Storage Temperature Range	-35°C to 75°C	-35°C to 75°C
Humidity Range	0-95% (NC)	0-95% (NC)
Terminal Size	8 AWG	8 AWG
Cooling	Natural Cooling	Natural Cooling
Ingress Protection	IP32	IP32
Altitude	<3,000m	<3,000m

Mechanical Data

Dimensions	6.38 x 4.25 x 2.24in / 162 x 108 x 57mm	6.38 x 4.25 x 2.44in / 162 x 108 x 62mm
Weight	1.06 lbs / 0.48kg	1.54 lbs / 0.7kg
Certification	RCM, FCC, CE, UKCA, ICID, RoHS, REACH, TSCA / CA65, TELEC, RF, R10	RCM, FCC, CE, UKCA, ICID, RoHS, REACH, TSCA / CA65, TELEC, RF, R10
Warranty	3-Year	3-Year

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