



ROVER ELITE 20A /40A MPPT CHARGE CONTROLLER



RENOGY ROVER ELITE 20A /40A MPPT CHARGE CONTROLLER

The Rover Elite series of MPPT charge controllers give you the most efficient charging for countless 12V or 24V off-grid solar applications. Compatible with an assortment of batteries, including Lithium, the Rover Elite MPPT utilizes powerfully smart tracking technology to maximize solar charging energy to your battery. Additionally, the Rover Elite MPPT is equipped with multiple battery, controller, and solar protections giving you peace of mind and an optimized system you can trust.

KEY FEATURES

- 12V /24V Automatic System Recognition*
- Backlit LCD displays system information and identifying error codes
- Advanced MPPT Technology with up to 99% high tracking efficiency, 96% conversion efficiency, and Lithium-reawakening feature
- 4 Deep Cycle Battery Pre-Sets: Gel, Flooded, Lithium-Iron Phosphate (12.8V), and Sealed/AGM.
- Multiple Electronic Protection Features, including over-charging, over-discharging, reverse polarity, over-load, and over-temperature



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Specifications

| Electric Characteristics | RCC20RVRE-G1 | RCC40RVRE-G1 |
|------------------------------|--|--|
| System Voltage | 12V / 24V Auto | |
| Battery Rated Current | 20A | 40A |
| Max Battery Voltage | 32V | |
| Max PV Input (Voc) | 100 VDC | |
| Max Power Input | 12V @ 260W 24V @ 520W | 12V @ 520W 24V @ 1040W |
| Power Consumption | 12V @ $\leq 0.22W$ 24V @ $\leq 0.72W$ | |
| Battery Types | SLD/AGM, GEL, FLD, LI | |
| Electronic Protections | Reverse Battery polarity, Reverse PV polarity, PV Over-voltage, Battery over-voltage, PV over-current, Battery over-current, Controller over-temperature | |
| Grounding Type | Negative | |
| Controller Terminals | 20-6 AWG, 2-pin terminals | |
| Temperature Compensation | -3mV/°C/2V, excludes LI | |
| Operating Temperature | -31°F ~ 113°F | |
| Storage Temperature | -31°F ~ 176°F | |
| Operating / Storage Humidity | $\leq 95\%$ (NC) | |
| Dimensions | 6.36 x 3.85 x 2.62 in 161.5 x 97.9 x 66.5 mm | 7.85 x 5.12 x 3.02 in 199.5 x 130 x 76.7 mm |
| Weight | 1.65 lbs | 3.01 lbs |
| Communication | RS485 | |
| Certification | FCC Part 15 Class B; CE; ROHS; RCM | |

| Battery Charging Parameters | GEL | | SEALED / AGM | | FLOODED | LITHIUM |
|-----------------------------|---------|---------|--------------|--------|---------|-----------------------------|
| High Voltage Disconnect | 16 V | | | | | |
| Over Voltage Reconnect | 15 V | | | | | |
| Equalization Voltage | | | | 14.8 V | | |
| Boost Voltage | 14.2 V | | 14.6 V | 14.6 V | | 14.4 V (User: 12.6-16 V) |
| Float Voltage | 13.8 V | | | | | |
| Boost Return Voltage | 13.2 V | | | | | |
| Low Voltage Reconnect | 12.6 V | | | | | |
| Under Voltage Warning | 11.1 V | | | | | |
| Equalization Duration | | 2 hours | | | | |
| Boost Duration | 2 hours | | | | | |

