



# 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

## 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 @ ≤ 0.22W 24V @ ≤ 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	≤ 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			