

Description

12V 20A DC-DC charger efficiently charges house batteries from vehicle starter batteries, delivering up to 94% efficiency. Advanced charging logic improves energy management while protecting battery systems.

This DC-DC charger is fully compatible with both traditional and smart generators to provide flexible vehicle power configurations. Optional monitoring via the Renogy app, when paired with a Bluetooth module, provides real-time system visibility for RVs, vans, and other mobile power applications.

Key Features

Smart 3-Stage Charging

Efficiently and automatically charges from the vehicle starter battery, maintaining optimal battery performance.

Broad Battery Compatibility

Supports AGM, Flooded, Gel, and Lithium batteries, and works with both traditional and smart alternators.

Integrated Electronic Protections

Includes overvoltage, overcurrent, short circuit, and overtemperature safeguards.

Isolated Input and Output

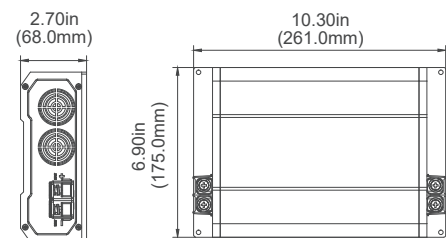
Incorporates advanced safety technology to ensure reliable and secure charging for your house batteries.

Compact & Durable Design

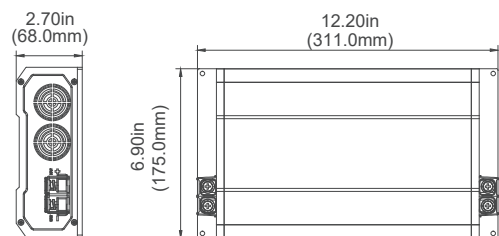
CE-certified construction suitable for RVs, marine, commercial vehicles, and mobile power systems.



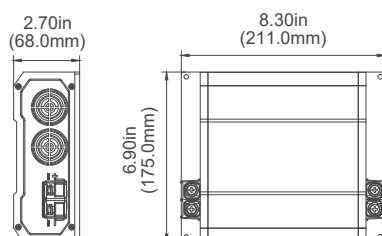
12V 40A DC to DC Battery Charger (DCC1212-40)



12V 60A DC to DC Battery Charger (DCC1212-60)



12V 20A DC to DC Battery Charger (DCC1212-20)



Technical Specifications

Electrical Parameters

Model	RNG-DCC1212-20	RNG-DCC1212-40	RNG-DCC1212-60
System Voltage	12V-12V	12V-12V	12V-12V
Rated Charge Power	250W	500W	750W
Rated Charge Current	20A	40A	60A
Input Voltage Range	8-16VDC	8-16VDC	8-16VDC
Output Voltage Range	Lead Acid: 13.2V-14.7V Lithium: 12.6V-14.6V	Lead Acid: 13.2V-14.7V Lithium: 12.6V-14.6V	Lead Acid: 13.2V-14.7V Lithium: 12.6V-14.6V
Supported Battery Type	SLA, Gel, FLD, Li	SLA, Gel, FLD, Li	SLA, Gel, FLD, Li
Charge Conversion Efficiency	90%	90%	90%
No-Load Current Consumption	0.4A	0.4A	0.4A
Parallel Connection	NO	NO	NO

Mechanical Specifications

Grounding	Common Negative	Common Negative	Common Negative
Terminal Size	M6 x 10mm	M6 x 10mm	M6 x 10mm
Terminal Torque	2.2-2.6 lbf-in / 24.5-29.4N-cm	2.2-2.6 lbf-in / 24.5-29.4N-cm	2.2-2.6 lbf-in / 24.5-29.4N-cm
Operating Temperature	-4°F to 122°F / -20 °C to 50°C	-4°F to 122°F / -20 °C to 50°C	-4°F to 122°F / -20 °C to 50°C
Operating Humidity	0% to 95% RH, No Condensation	0% to 95% RH, No Condensation	0% to 95% RH, No Condensation
IP Rating	IP20	IP20	IP20
Installation Method	Surface Mounting	Surface Mounting	Surface Mounting
Cooling	Natural Cooling	Natural Cooling	Natural Cooling
Operating Altitude	≤3,500m	≤3,500m	≤3,500m
Dimensions (LxWxH)	8.3 x 6.9 x 2.7in / 211 x 175 x 68mm	10.3 x 6.9 x 2.7in / 261 x 175 x 68mm	12.2 x 6.9 x 2.7in / 311 x 175 x 68mm
Weight	3 lbs / 1.3kg	4 lbs / 1.9kg	5.3 lbs / 2.4kg
Certifications	CE, RCM	CE, RCM	CE, R10, RCM
Warranty	1-Year	1-Year	1-Year

Package Contents

User Manual	Yes (x1)	Yes (x1)	Yes (x1)
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