

Description

12V 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

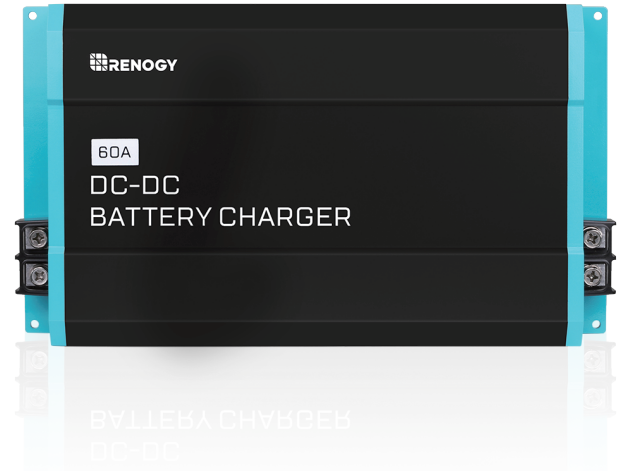
Includes overvoltage, overcurrent, short circuit, and overtemperature safeguards.

- Isolated Input and Output

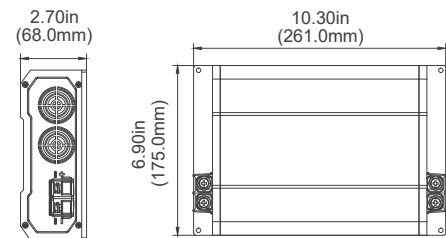
Incorporates advanced safety technology to ensure reliable and secure charging for your house batteries.

- Compact & Durable Design

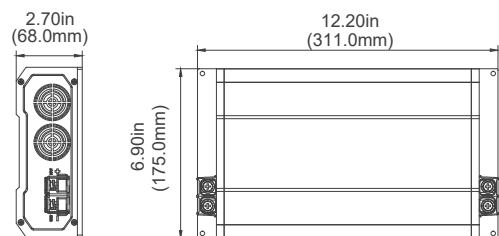
CE-certified construction suitable for RVs, marine, commercial vehicles, and mobile power systems.



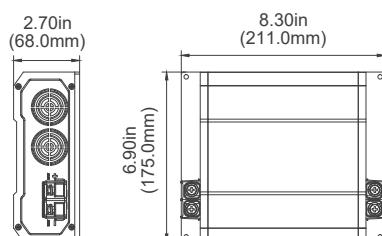
12V 40A DC to DC Battery Charger (DCC1212-40)



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

Electrical Parameters

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	2-Year	2-Year	2-Year

Package Contents

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