

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**

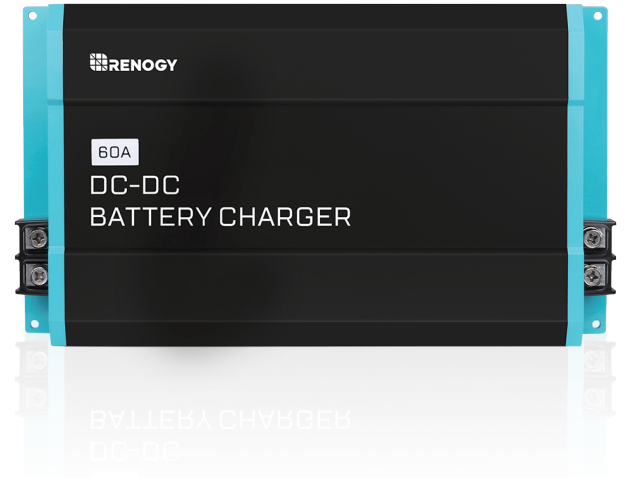
Includes overvoltage, overcurrent, short circuit, and overtemperature safeguards.

- **Isolated Input and Output**

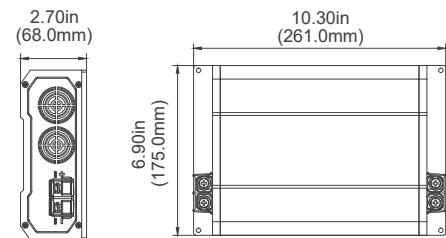
Incorporates advanced safety technology to ensure reliable and secure charging for your house batteries.

- **Compact & Durable Design**

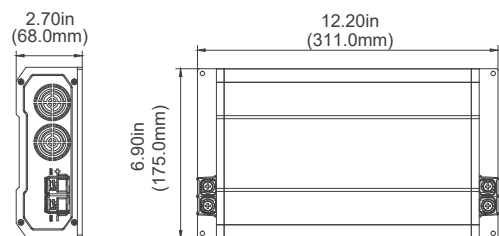
CE-certified construction suitable for RVs, marine, commercial vehicles, and mobile power systems.



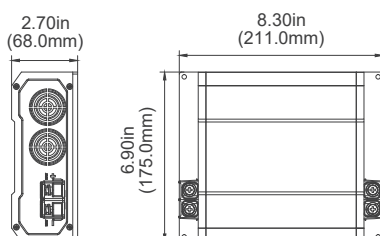
12V 40A DC to DC Battery Charger (DCC1212-40)



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 |

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 | 1-Year | 1-Year | 1-Year |

Package Contents

| | | | |
|-------------|----------|----------|----------|
| User Manual | Yes (x1) | Yes (x1) | Yes (x1) |
|-------------|----------|----------|----------|

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