



# DC-DC BATTERY CHARGER

Reliable Charging On the Move

Optimized for All Alternators, Lead-Acid & Lithium Batteries



DCC1212-30A  
DCC2412-30A



DCC1212-60A  
DCC2412-60A



## FEATURES

- 3-Stage Charging + Soft Start
- Supports STD, AGM, GEL, SLA, LiFePO4 & Li-ion
- Supports LC Wire for Charging Current Adjustment
- Compatible with Both Conventional and Smart Alternators
- Input & Output Fully Isolation
- Intelligent Temp & Load Cooling Fan
- Multi Pre-Alarm & Shutdown Alarm Protections: Input/Output Polarity Reverse / Input Low Voltage / Input High Voltage/ Output Short Circuit / Overheat
- Aluminum Housing
- 100% Made in Taiwan

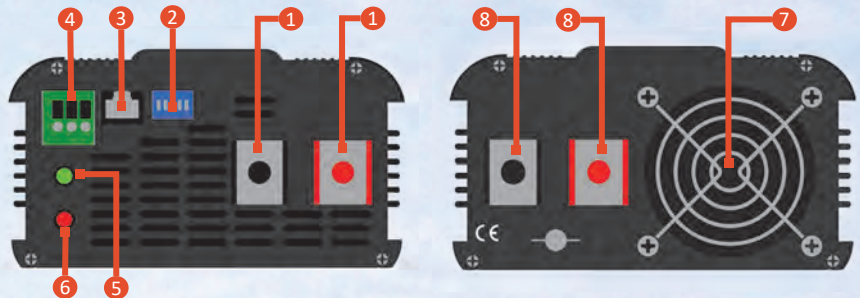


# DC-DC Battery Charger *DCC* Series

| Model                       | DCC1212-30A                                                     |  | DCC1212-60A       |  | DCC2412-30A                    |  | DCC2412-60A       |  |
|-----------------------------|-----------------------------------------------------------------|--|-------------------|--|--------------------------------|--|-------------------|--|
| System                      |                                                                 |  |                   |  |                                |  |                   |  |
| Transformation              | 12VDC -> 12VDC                                                  |  |                   |  | 24VDC -> 12VDC                 |  |                   |  |
| Input Battery Voltage       | 8V~16V                                                          |  |                   |  | 16V~32V                        |  |                   |  |
| Output Charging Current     | 30A                                                             |  | 60A               |  | 30A                            |  | 60A               |  |
| Output Max Power            | 375W                                                            |  | 750W              |  | 375W                           |  | 750W              |  |
| Output Charging Voltage     | Lead Acid: 13.2V~14.7V; LiFePO4: 12.6V~14.6V                    |  |                   |  |                                |  |                   |  |
| Output Charging Mode        | 3-Stage Charging: Bulk -> Absorption -> Float                   |  |                   |  |                                |  |                   |  |
| Battery Type                | STD / AGM / GEL / SLA / LiFePO4 / Li-ion (Select by DIP Switch) |  |                   |  |                                |  |                   |  |
| Standby Current             | < 0.1A                                                          |  |                   |  |                                |  |                   |  |
| Residual Ripple Output Volt | < 50mV                                                          |  |                   |  |                                |  |                   |  |
| Efficiency                  | > 90%                                                           |  |                   |  |                                |  |                   |  |
| Operating Temp / Humidity   | -20°C ~ 40°C / < 90% Non-condensing                             |  |                   |  |                                |  |                   |  |
| Storage Temp / Humidity     | -20°C ~ 65°C / < 90% Non-condensing                             |  |                   |  |                                |  |                   |  |
| Protection                  |                                                                 |  |                   |  |                                |  |                   |  |
| Input Polarity Reverse      |                                                                 |  |                   |  | By Fuse                        |  |                   |  |
| Input High Voltage          | > 16V Shutdown & Alarm (±0.5V)                                  |  |                   |  | > 32V Shutdown & Alarm (±1.0V) |  |                   |  |
| Input Low Voltage           | < 8V Shutdown & Alarm (±0.5V)                                   |  |                   |  | < 16V Shutdown & Alarm (±1.0V) |  |                   |  |
| Output Polarity Reverse     |                                                                 |  |                   |  | By Circuit                     |  |                   |  |
| Output Disconnection        |                                                                 |  |                   |  | YES                            |  |                   |  |
| Output Short Circuit        |                                                                 |  |                   |  | YES                            |  |                   |  |
| Overheat                    | > 90°C Shutdown & Alarm (±5°C )                                 |  |                   |  |                                |  |                   |  |
| Cooling                     | Intelligent Output Current/Heat Controlled Fan                  |  |                   |  |                                |  |                   |  |
| Mechanical                  |                                                                 |  |                   |  |                                |  |                   |  |
| Fuse Input / Output         | 25A x 2 / 25A x 2                                               |  | 30A x 3 / 30A x 3 |  | 15A x 2 / 25A x 2              |  | 15A x 3 / 30A x 3 |  |
| Terminal Size               | M6                                                              |  | M6                |  | M6                             |  | M6                |  |
| Dimension (L x W x H)       | 230 x 135 x 79 mm                                               |  | 295 x 135 x 79 mm |  | 230 x 135 x 79 mm              |  | 295 x 135 x 79 mm |  |
| Net Weight                  | 1.5 kg                                                          |  | 2.0 kg            |  | 1.5 kg                         |  | 2.0 kg            |  |
| Remote Control              | RC-S-DCC, RC-M-BT                                               |  |                   |  |                                |  |                   |  |

## ■ Panels

- ① Output Positive/Negative Terminals
- ② DIP Switch
- ③ Remote Port
- ④ Limited Current Signal, D+ Ignition, D+ Output Terminals
- ⑤ Power LED
- ⑥ Protection LED
- ⑦ Fan
- ⑧ Input Positive/Negative Terminals



## ■ DIP Switch Charging Settings



| TYPE             | SW5 | SW4 | SW3 | SW2 | SW1 | BULK/ABS        | FLOAT |
|------------------|-----|-----|-----|-----|-----|-----------------|-------|
| Li-ion / LiFePO4 | -   | -   | -   | OFF | OFF | 12.6V           | -     |
|                  | -   | -   | -   | OFF | ON  | 12.8V           | -     |
|                  | -   | OFF | -   | ON  | OFF | 13.0V           | -     |
|                  | -   | -   | -   | ON  | ON  | 13.8V (Default) | -     |
|                  | -   | -   | -   | OFF | OFF | 14.0V           | -     |
|                  | -   | -   | -   | OFF | ON  | 14.2V           | -     |
|                  | -   | -   | -   | ON  | OFF | 14.4V           | -     |
|                  | -   | -   | -   | ON  | ON  | 14.6V           | -     |

| TYPE      | SW5 | SW4 | SW3 | SW2 | SW1 | BULK/ABS | FLOAT |
|-----------|-----|-----|-----|-----|-----|----------|-------|
| Lead-Acid | -   | -   | -   | OFF | OFF | 14.1V    | -     |
|           | -   | -   | -   | OFF | ON  | 14.1V    | -     |
|           | -   | -   | -   | ON  | OFF | 14.4V    | -     |
|           | -   | -   | -   | ON  | ON  | 14.7V    | -     |
|           | OFF | OFF | -   | -   | -   | -        | 13.2V |
|           | OFF | ON  | -   | -   | -   | -        | 13.2V |
|           | ON  | OFF | -   | -   | -   | -        | 13.5V |
|           | ON  | ON  | -   | -   | -   | -        | 13.8V |