

Battery to Battery Chargers

Non Waterproof (Drip Proof IP21)

12V | 24V | 36V | 48V

20A-70A Input Models

(larger units overleaf)

Euro 6+ friendly

Sterling's range of Battery to Battery Chargers (B2Bs) has grown significantly over the past few years. Offering a product range in this market unsurpassed by anyone in both power and flexibility. This is in an effort to supplement the ever growing demand from the commercial vehicle, recreational vehicle and marine industries. The B2Bs have become extremely popular as they fast charge batteries as you cruise along without the need for complex wiring, touching your alternator, voiding the alternator's warranty and tampering with the electronic control units (ECUs). You can provide the onboard batteries with a fast 4 stage charging profile with a very simple and speedy installation. All of the benefits of advanced charging without any of the drawbacks. Simply connect the B2B between the battery being charged and the battery you wish to charge.

Read about regenerative braking and the test that Sterling did. **Page 15.**



3 activation modes:

1) **Automatic** - Default, operates on input voltage (13.3V / 26.6V on) and complements regenerative braking with low voltage timer. No ignition feed required.

2) **Ignition feed with timer.** As above, however, requires a live ignition feed to operate. Input voltage figures and timings, as above.

3) **Ignition feed without timer.** As above, however, the timer does not kick in, so it can potentially stay on indefinitely provided input voltage stays above a certain low threshold.

The default mode, which is **Automatic Regenerative Braking Friendly**, does not require an ignition feed to operate. It works on input voltage and timing algorithms (These values can be customised on the unit). This is ideal for most setups as ignition feeds are getting increasingly hard to find on modern vehicles, this new unit is therefore simple to install.

Very simple to install. No Electronic Control Unit (ECU) issues. No complex wiring. No Warranty issues. Fully prepared for smart alternators (**Regenerative braking**). 95% off installations are simply out of the box with no setup.

4 stage battery charging. The B2B charges batteries between 5-20 times faster than a stand alone alternator.

OEM lock: the unit can be locked by the installer to prevent tampering and misuse of the product by the operators. By locking the BB, you secure all previous settings in place and prevent subsequent tampering.

9 preset battery chemistry options including AGM, LiFePO₄, Gel, flooded and sealed lead acid.

Customizable profile - choose your own charging profile on the front panel.

B2B turns on at 13.6V and turns off at 13.3V (x2 for 24V). Thus, does not drain input battery. **Regenerative braking mode** shall allow the input voltage to drop to 12.2V (x2 for 24V).

Boost / Reduce Charging. The B2Bs ensure batteries get the correct charging profile irrespective of high or low input voltages.

BB1260
BB122470
BB241235
BB242435
BB123670
BB124870

BB1230

Output charging at **12V, 24V, 36V and 48V.** Input voltages at **12V and 24V.** Up to **800W rating.** Much larger model up to **3000W** coming soon.

No risk of starter battery discharge. Current is **NOT** taken from the input battery and given to the output battery except during the low voltage timer for regenerative braking mode. This time frame can be increased in length or brought down to 0 seconds.

Safety features:

- 100% fire proof plastic box
- no screws to corrode
- thermal power reduction
- multi stage fan cooling

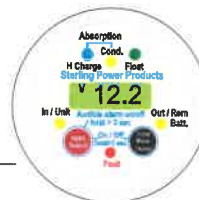
Dynamic thermal charging, the charging voltage fluctuates based on the temperature of the sensor (included ->).

Unit is current limiting, prevents large current flow and requires less cable thickness.

Adjustable current limit. The current limit can be reduced to 50%.

Night time setting allows the unit to run at 1/2 power so the fan noise is kept down.

1 x temperature sensor (TSAY) included in all units.



Remote Control (Optional)

Displays: Voltage / Warnings / Temperatures. Can be used as an independent voltmeter measuring input battery voltage and output battery voltage.

Can remotely modify the Batt. the Batt. Charger:

- Force the unit to float
- Force the unit to 1/2 current limit
- Force the unit to standby
- Force the unit off
- Force the unit to Night Mode
- Reset both Remote and Charger

E marked.
Suitable for
OEM fitting.



| DC V (in) | DC V (out) | Current (A) | Weight (Kg) | L x W x D mm | Code |
|-----------|------------|-------------|-------------|----------------|----------|
| 12V | 12V | 30A input | 1.2 | 190 x 160 x 50 | BB1230 |
| 12V | 12V | 60A input | 1.4 | 190 x 160 x 70 | BB1260 |
| 12V | 24V | 70A input | 1.4 | 190 x 160 x 70 | BB122470 |
| 12V | 36V | 70A input | 1.4 | 190 x 160 x 70 | BB123670 |
| 12V | 48V | 70A input | 1.4 | 190 x 160 x 70 | BB124870 |
| 24V | 24V | 35A input | 1.4 | 190 x 160 x 70 | BB242435 |
| 24V | 12V | 35A input | 1.4 | 190 x 160 x 70 | BB241235 |

Remote w/ 10m cable

BBURC

German, French, Spanish main label overlay sticker



® Trademark of
Mercedes Benz

® Trademark of
Volkswagen



® Trademark of
Vauxhall / Opel

® Trademark of
Ford