

# Battery to Battery Chargers

## Non Waterproof (Drip Proof IP21)

12V 24V 36V 48V

Sterling's range of Battery to Battery Chargers (B2Bs) has grown significantly over the past few years. 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 draw backs. Simply connect the B2B between the battery being charged and the battery you wish to charge.

**NEW**

Available  
Q2  
2015

**Multiple activation modes:**

**Automatic** for most non vehicle applications.

**Manual** for remote activation.

**Regenerative braking** (requiring ignition feed). Finally, **Automatic regenerative** braking requiring no ignition feed.

**Very simple to install.** No Electronic Control Unit (ECU) issues. No complex wiring. No Warranty issues. Fully prepared for smart alternators (**Regenerative braking**).

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



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

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

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.

**Current is NOT taken from the input battery** and given to the output battery. The B2B uses alternator power to charge the output battery. **Manual mode and Regenerative Braking mode** allows you to override this.

**Safety features:**




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

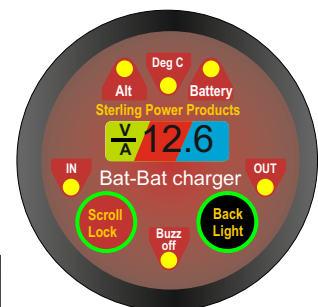
**Night time setting** allows the unit to run at 1/2 power so the fan noise is kept down.

**B2B turns on at 13.3V and turns off at 13.0V (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).

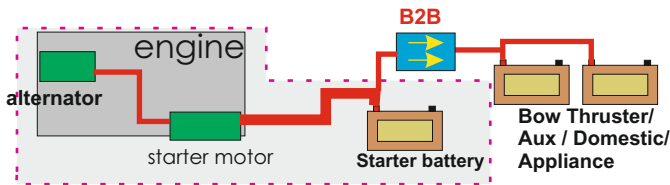
**Boost / Reduce Charging.** The B2Bs ensure batteries get the correct charging profile irrespective of high or low input voltages.



Battery to Battery charger Drip Proof IP31					
DC V (in)	DC V (out)	Amps in	Wgt (Kg)	L x W x D mm	Part Nos
12	12	30	1.2	190 x 160 x 70	BB1230
12	12	60	1.4	190 x 160 x 95	BB1260
12	24	60	1.4	190 x 160 x 95	BB122460
12	36	60	1.4	190 x 160 x 95	BB123660
12	48	60	1.4	190 x 160 x 95	BB124860
24	24	35	1.4	190 x 160 x 90	BB242435
24	12	35	1.4	190 x 160 x 95	BB241235
12	12	120	Not available at this time check internet		
12	12	240	Not available at this time check internet		
Remote control w/ 10m cable					BBRC
German French Spanish Main Label Sticker   					



**Remote Control (Optional)**  
Displays: Voltage / Currents / Warnings  
54mm diameter



**Simple Wiring Diagram.** illustration to show the most common B2B setup. Whether, for charging bow thrusters banks on boats or for charging domestic banks on RVs or commercial vehicles.

**Sterling's current battery to battery charger.** Sold 10,000s into the marine, commercial and recreational industries. Still a solid, extremely reliable charger.

12V and 24V input and output models. Max current rating is 50A at 12V. 4 battery chemistry settings including Gel / AGM / Flooded and sealed lead acid.

We now have a range of Regenerative Braking (RBF) models which require an 80A ignition fed relay (IFR1280).



optional remote control

Battery to Battery chargers / NON WATERPROOF, *Not* suitable for RBF vehicles

DC Input (V)	DC output (V)	Current (A)	L x W x D (mm)	Weight (Kg)	SKU
12	12	50	200 x 270 x 70	3	BB1250
24	24	30	200 x 270 x 70	3	BB2430
12	24	50	200 x 270 x 70	3	BB122450
24	12	30 in / 50 out	200 x 270 x 70	3	BB241230
Remote control for items in red				0.05	BBCRC

Battery to Battery chargers / NON WATERPROOF, suitable for RBF vehicles

DC Input (V)	DC output (V)	Current (A)	L x W x D (mm)	Weight (Kg)	SKU
12	12	50	200 x 270 x 70	3	BB1250R
24	24	30	200 x 270 x 70	3	BB2430R
12	24	50	200 x 270 x 70	3	BB122450R
24	12	30 in / 50 out	200 x 270 x 70	3	BB241230R
Remote control for items in red				0.05	BBCRC

## Waterproof Battery to Battery Charger 12V 60A - 120A



9 pre-programmed charging profiles for AGM, Gel, sealed/flooded and calcium batteries and desulphation modes.

**Waterproof ( built to ) IP66 models.** These units have the benefit of being epoxy potted so that the charger is sealed off from water and dirt ingress. The cooling fan is not sealed and is rated at IP55, the fan is designed to be easily replaced in the event of major immersion .

**120A and 60A models.** Only in 12V. Features are similar to that of the non-waterproof models.

**Regenerative braking and manual override ability.**



120A

60A

**Waterproof Remote Control ( Optional )**  
Voltages / Currents / Alarms

1 x Temperature sensor included



Battery to Battery chargers waterproof

DC Input (V)	DC output (V)	Current (A)	L x W x D (mm)	Weight (Kg)	SKU
12	12	60	145 x 110 x 120	3	BBW1260
12	12	120	170 x 130 x 125	3.5	BBW12120
Remote control			54mm diameter		BBCRCN