

# Battery to Battery Charger + MPPT Solar Regulator

Non Waterproof (Drip Proof IP21)



The new combined battery to battery charger and solar regulator maximises the operational usage of the battery to battery charger. It does this by adding a solar operation to the product both when the vehicle is in motion and moreover when the vehicle is stationary. This makes it, in effect, also a free 350W solar regulator when the vehicle is stationary.

This product has all the benefits of the standard 30A Battery to Battery charger when the engine is on. The starter / engine battery maintenance mode allows for surplus current (from solar) to be directed

E marked. Suitable for OEM fitting.



**Activation mode:**

This unit's Battery to Battery charging aspect is activated by an ignition feed from the vehicle's engine. This gives the battery to battery charger aspect priority over the solar. However, note the full solar power is still utilised.

This is the only operational mode for this product and is suitable for Euro 6+ vehicles

**Solar mode:**

When the ignition feed is switched off (ie the vehicle engine is off) the battery to battery charger shuts down. The solar aspect takes over. This allows for a more efficient solar program to be run instead of the 2 aspects running at the same time.

**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:**

- Fire retardant plastic housing
- 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 ->).

**Test Report Sheet**

Each product gets uniquely tested and a report is generated. This unique test report is present inside this box. You must keep this test sheet in this box and keep this box safe. This sheet should be present when the charger is being warranted.

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

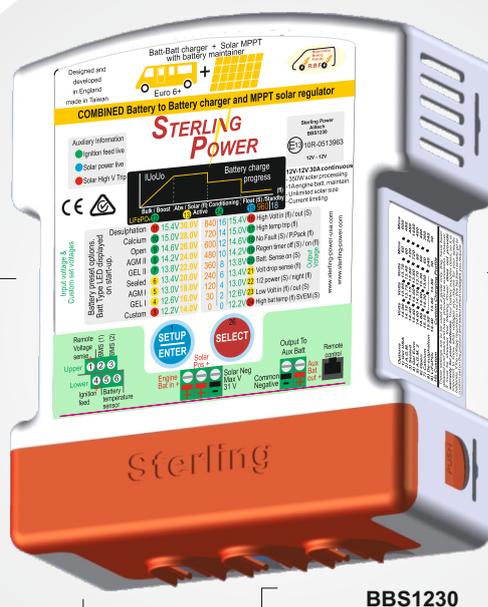
**4 stage battery charging.** The B2B charges batteries between 5-20 times faster than a stand alone alternator.

**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, LiFePO<sub>4</sub>, Gel, flooded and sealed lead acid.

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

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



**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.

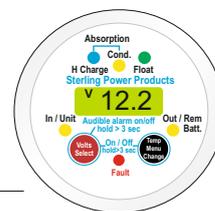
1 x temperature sensor (TSAY) included in all units.

**Remote Control (Optional) BBURC**

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

54mm diameter



DC V (in)	DC V (out)	Current (A)	Weight (Kg)	L x W x D mm	Code
12V	12V	30A input	1.5	190 x 160 x 50	BBS1230
350W solar					