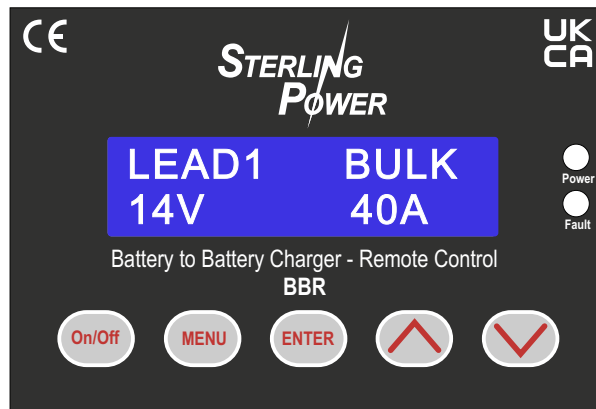


Part No:  
BBR



latest instructions



For use with Sterling's  
Battery to Battery  
Charger range:



# STERLING POWER

## Sterling Power Products BB remote control Handbook

### BBR

EURO 6



UK  
CA



RoHS  
compliant



[www.sterling-power.com](http://www.sterling-power.com)  
[www.sterling-power-usa.com](http://www.sterling-power-usa.com)

**Warranty (2 years return to factory)**

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#### What does the BBR offer?

- Live voltage and current readings from BB output
- Ability to set custom charge profiles
- Ability to adjust current limit to 85%, 65% or full power (100%)
- Allows the removal of float feature in lithium profiles
- Desulphation / equalisation settings can be set.

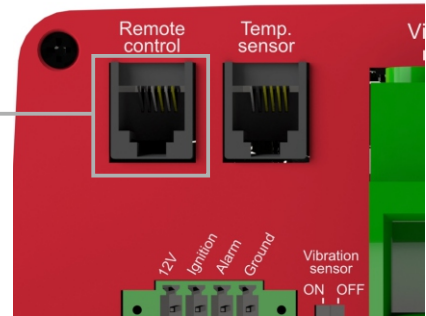
## BBR Battery to Battery Charger Remote control

**Welcome** The BB remote control (BBR) is designed to be used with Sterling Power's range of Buck Boost Battery to Battery Chargers (red casing with white text). The BBR is both a passive display of information and a remote control that can input and modify the behaviour of the BB.

**Installation** The remote comes with 3m of extension cable and the appropriate adapter. The remote can be flush mounted, surface mounted or recess mounted. The tabs on the wings of the remote control can be taken off and 4x screw holes can be used.

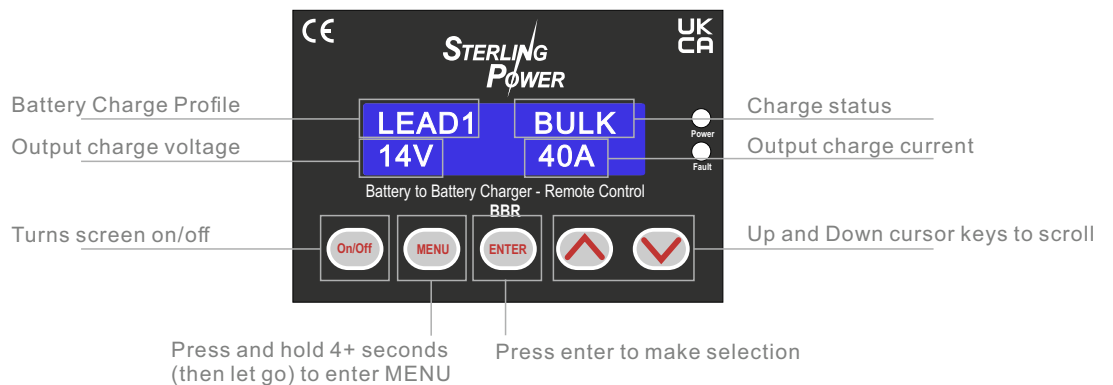
The remote is powered from the BB

connect cable to this port on BB



When the remote is connected to the BB, the remote shall display the settings that have already been programmed into the BB, previously. Once the remote is connected, changes can be made using the remote.

### Diagram



### 2 main display screens



### Making functional changes



Press and hold function button for 4 seconds+ and let go to enter functions.

Functions and customisable features on the remote control. Below is a list of functions that can be selected by the remote control. More information overleaf.

- Battery type - here you can change battery type, you can also select user defined setting (custom) - set as below.
- EQ Mode - Enabling EQ mode shall put the BB into a desulphation cycle. Warning high voltage.
- Float on/off - Here you can turn off float mode - only available in lithium
- Ign - Ignition mode, you can toggle whether the BB is in ignition mode or not. (on/off)
- Backlight - Here you can adjust how long the backlight stays on after you press a button (All, 10s-250seconds).
- Set Current - here you can adjust the current levels to 65%, 85% or 100%.
- Alarm Buzzer - simple on/off setting, here you can turn remote buzzer on/off.
- User defined setting 1 - here you can adjust absorption voltage, float voltage and absorption time lengths
- User defined setting 2 - here you can adjust absorption voltage, float voltage and absorption time lengths

Then use the cursor keys to toggle through the options - press ENTER to select a function. *In order for the remote control to register any changes you must toggle through to the 'save and exit' option. If you do not do this, the remote does not save the settings.*

## BBR Battery to Battery Charger Remote control

<b>Battery type</b>	Press ENTER - toggle between LEAD 1 +2, AGM 1+2 and both the lithium profiles or the User Defined Settings 1+2. This can be set further down the menu list.
<b>EQ mode</b>	This mode puts the BB into a desulphation charge voltage of 15.5V (only appears when in LEAD mode) - use toggle up and down to adjust.
<b>Turn Float on or off</b>	This mode turns float mode on or off (only available when in LITHIUM) - use toggle up and down to adjust
<b>IGN</b>	If the BB has been put into ignition feed mode, here you can take the BB out of ignition feed mode. Simply toggle up and down with arrows to select the desired on/off.
<b>Backlight</b>	Backlight timer can be set here. After you press a button the remote, you can define how long the screen remains on for. 10s - 250 seconds. There is also an 'ALL' selection. This means the screen is on all the time, whilst the charger is running. On all the time shall allow you to view what the BB is doing whilst driving and the BB charging.
<b>Set current</b>	The default current setting for the BB range is 100% - meaning that the performance default is full power. If you wish to reduce the performance of the BB, here you can set to 85% or 65% charge rate. Examples of why you may wish to reduce performance: 1) if you have solar panels and the weather is good, by reducing the power of the BB, you shall conserve fuel. 2) The alternator is better suited running at slightly lower current than what was expected. 3) It may be recommended by your battery supplier to charge the battery up at a slightly lower current. If one of your lithium batteries within your leisure battery bank fails, you may be exceeding the C rating of the remaining batteries. 4) future proofing. If you have installed a high powered BB, in the assumption that one day you shall put a larger alternator on and/or more batteries in your system. You can reduce the power for the immediate install and increase the performance of the unit at a later date.
<b>User define1 set</b>	If you enter User define1 set you can customise the charge profile and absorption time length. The first measure to adjust is the absorption voltage (14.0-15.5V) - use the cursor keys to adjust up or down the absorption voltage, then press ENTER. The next option is float (12.6V - 14.0V) - use the cursor keys to adjust and press ENTER. The last option is absorption time length in hours (0.5hr - 6.0hrs) - press enter to confirm. Once you have confirmed go back up to Battery type and select 'user define1'.
<b>User define2 set</b>	If you enter User define2 set you can customise the charge profile and absorption time length. The first measure to adjust is the absorption voltage (14.0-15.5V) - use the cursor keys to adjust up or down the absorption voltage, then press ENTER. The next option is float (12.6V - 14.0V) - use the cursor keys to adjust and press ENTER. The last option is absorption time length in hours (0.5hr - 6.0hrs) - press enter to confirm. Once you have confirmed go back up to Battery type and select 'user define2'.
<b>Save and Exit</b>	If you have made changes within the SETUP procedure and you wish to save these settings - you must press ENTER on Save and Exit.
<b>No Save and Exit</b>	If you have made changes within the SETUP procedure and you DO NOT wish to save these settings - you must press ENTER here.

BBR dimensions - not to scale

