

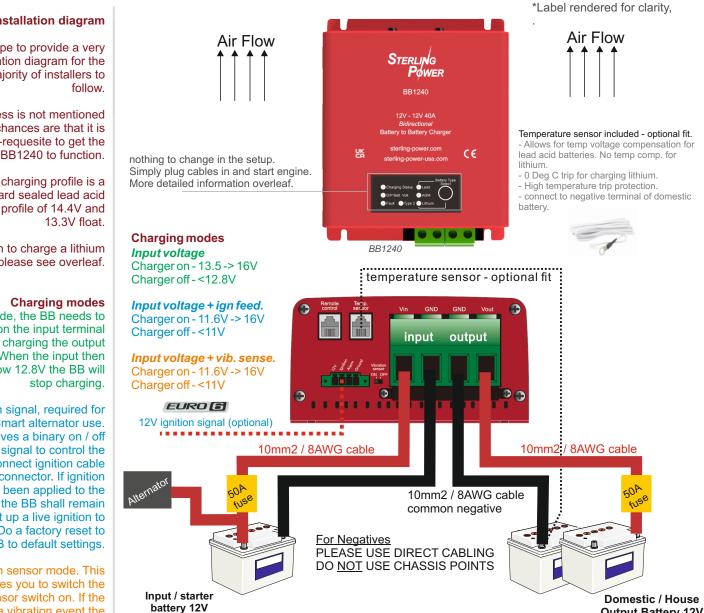
12V to 12V Battery to Battery Charger 40A input **BB1240**





PRODUCT INFORMATION

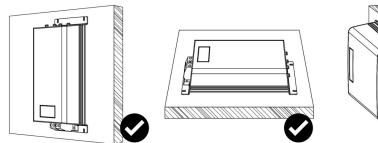
SIMPLE WIRING DIAGRAM

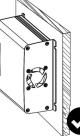


Output Battery 12V Lead Acid or Lithium

Reverse Charging Feature -

There is nothing to setup with regards the reverse charging feature. Provided there is over 13.8V on the leisure battery and the starter battery is below 13V the BB shall allow approximately half current (~20A) to flow back to the starter battery up to about 13.6V (float voltage). It simply allows the starter battery to remain topped up when there is surplus energy in the domestic battery. This feature will NOT drain your domestic battery - it simply takes surplus. Once your alternator / engine turns on or you provide the BB with an ignition signal the BB revert to normal charging of the leisure battery. To disable this feature hold button down to 30 seconds and let go.





If prone to getting damp, this mounting option may result in pooling of water at the bottom

Basic installation diagram

Here, we hope to provide a very basic installation diagram for the vast majority of installers to

If a process is not mentioned here, the chances are that it is not a pre-requesite to get the BB1240 to function.

The default charging profile is a standard sealed lead acid charging profile of 14.4V and

If you wish to charge a lithium battery, please see overleaf.

In default mode, the BB needs to see 13.5V on the input terminal to begin charging the output battery. When the input then drops below 12.8V the BB will

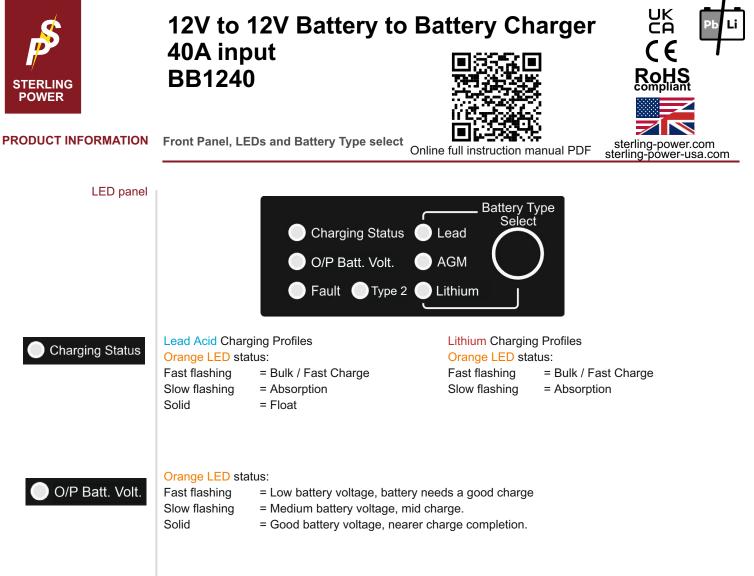
12V ignition signal, required for Euro 6 / Smart alternator use. Ignition gives a binary on / off style signal to control the BB1240. Connect ignition cable to 'ign' connector. If ignition signal has been applied to the BB the BB shall remain dependent up a live ignition to operate. Do a factory reset to restore BB to default settings.

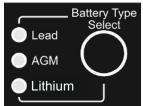
Vibration sensor mode. This requires you to switch the Vibration sensor switch on. If the unit detects a vibration event the BB shall turn on and begin charging.

> Factory reset - hold Select button for 15 seconds

Recommended installation orientation

The BB1240 can be mounted in any orientation. However, if the area is prone to getting wet or damp, we recommend the first or second install.





Battery Type Select

When charger is on, press and hold the Select button for 5 seconds until the LEDs flash. Then, press the Select button to toggle through the 6 different battery types - the flashing orange LED shall depict the battery type. Type 2 LED shall light up to display the second profiles of the battery types. Once you have the LED on the battery type you, want wait until the LED stops flashing - after a few seconds the flashing stops and the LED stays on solid - this confirms setting.

LED sequence	Battery Type	Absorptions (V)	Float (V)	
😑 Lead	Lead I	14.4V	13.3V	default
OType 2 + OLead	Lead II	14.6V	13.5V	
O AGM	AGM I	14.2V	13.1V	
OType 2 + OAGM	AGM II	14.7V	13.6V	
🔵 Lithium	Lithium I*	14.4V	13.8V	
OType 2 + OLithium	Lithium II*	14.2V	13.6V	

Lithium* = live output voltage, ideal for waking up BMSs on batteries. Please ensure your lithium battery has an internal or external BMS.

If temperature sensor connected, no voltage compensation on lithium profiles. If temperature sensor detects 0 Deg C - BB stops charging.

