

# Pro Charge B

## Waterproof Battery to Battery Charger (built to IP68)

12V 24V 36V 48V  
Up to 28A-12V Input

The Pro Charge B is a fully epoxy encapsulated, plug and play, battery to battery charger. It is primarily designed to be put between the starter battery and an appliance battery (trolling / bow thruster / domestic). The charger puts a load on the alternator and converts that load into a 4 stage charging profile to provide fast and effective charging to the leisure/domestic batteries. The whole point of the charger is to charge your batteries up when you drive/cruise along by fully utilizing your on board alternator. The charger is best suited for alfresco use to fully utilize its weatherproof casing. Therefore, it tends to be at home on bass fishing boats charging the trolling motor bank - it can be used in a plethora of other places.



**Boost / Reduce Charging.** The Pro Charge B shall ensure your batteries get the correct charging profile for your batteries irrespective of high or low input voltage.

**up to 300W rating.** Output charging at 12V, 24V, 36V and 48V. Input voltages at 12V and 24V.



**Regenerative Braking friendly.** this product can be used in vehicles with regenerative braking / smart alternators.

**Pre-Wired and Pre-Fused cables.** 1.5 m / 70 inches cable length.

**IP68, totally waterproof,** fully en-capsulated can be submerged in water.



**Battery Chemistry type selection.** 6 battery chemistry types including AGM, Gel, sealed/flooded lead acid and LiFePO<sub>4</sub>.

Thermal power reduction, allows for short high power runs to maximise power transfer.

Suitable for battery banks up to about 200Ah at 12V.

**Various activation modes.** **Automatic mode** works from sensing voltage. **Manual mode** works from switch over ride. **Regenerative braking mode** the chargers stays on down to 12.2V.

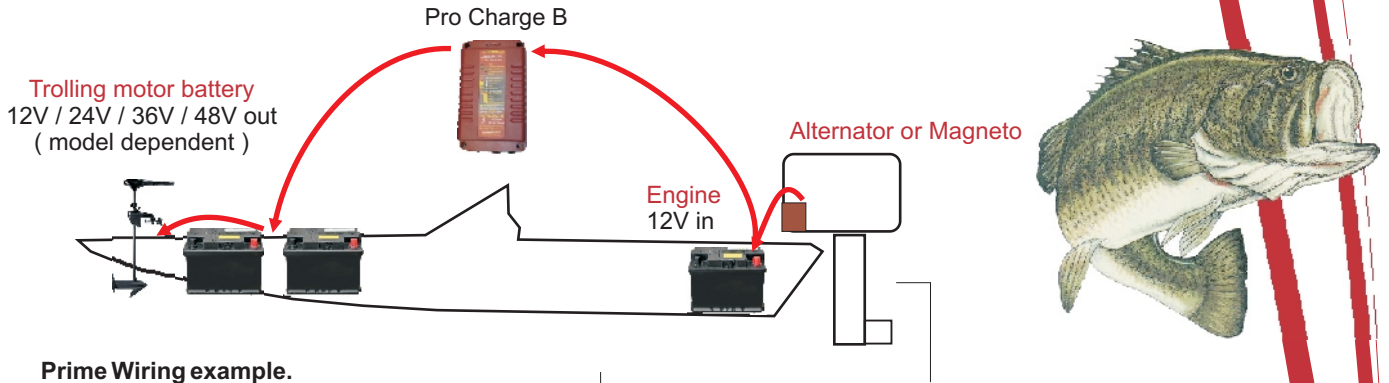
**Multiple units can be used on the same installation.**

\* 25A for about 30 minutes then drops to about 18A on thermal restriction

Battery to Battery chargers / IP68 FULLY WATERPROOF					
Input (VDC)	Output (VDC)	Input Current (A)	Size L x W x D	Weight (Kg)	Code
12V	12V	25A*	230 x 135 x 65	3	BBW1220
12V	24V	25A*	230 x 135 x 65	3	BBW1224
12V	36V	25A*	230 x 135 x 65	3	BBW1236
12V	48V	25A*	230 x 135 x 65	3	BBW1248
24V	24V	13A	230 x 135 x 65	3	BBW2424
24V	12V	13A	230 x 135 x 65	3	BBW2412



# Charging in a Bass Fishing Boat



### Prime Wiring example.

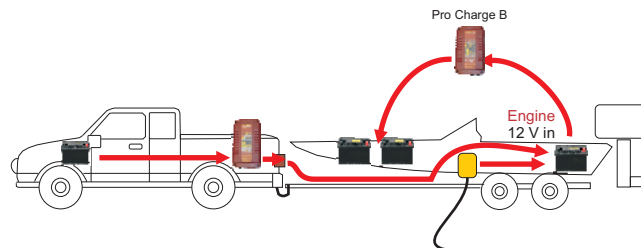
Not only does the **Pro Charge B** connect the 12V starter battery to the trolling motor bank it also charges them at their correct voltage scale and profile. This encourages the alternator to work at a much higher capacity and results in faster charge between fishing stops and better maintenance of your trolling motor batteries.

**Charging performance** of alternator or magneto without a **Pro Charge B** will produce about 1-2A. With a **Pro Charge B** you can expect the output from the charging source to run at a much higher rate - **up to 25A at 12V.**

Larger alternators do not adversely effect the product as its **current limiting.**

### Ultimate Wiring example.

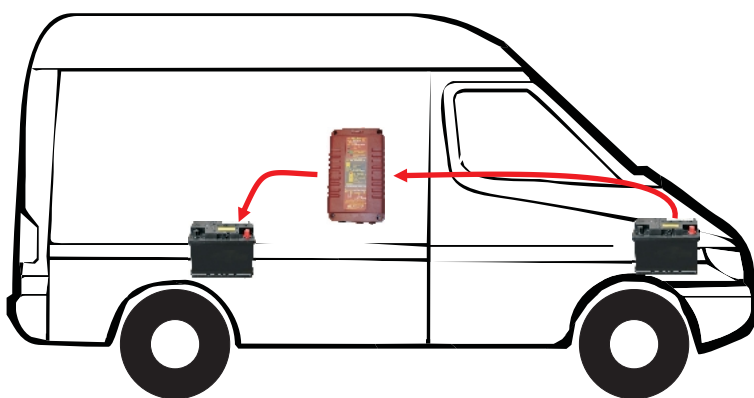
Why not charge the bass boat batteries while driving along? Connect a **Pro Charge B** from the truck starter via an Anderson type socket at the back of the truck to the **Prime Wiring** setup. This example allow you to fast charge while driving to and from the lake and then while cruising on the lake.



### Shore Power Charger (AC to DC).

Directing shore power to the engine starter battery shall activate the **Pro Charge B** to charge the trolling motor batteries at their correct profile at 12V / 24V / 36V / 48V.

# Charging in a Commercial Vehicle



A very common commercial vehicle setup would include having an appliance battery in the rear and a starter battery in the engine bay and connecting them with a **Pro Charge B**. Can be used to charge 12V, 24V or 36V battery, from the 12V vehicle starter.

With the advent of the low voltage alternators (to save fuel) the **Pro Charge B** is able to operate at low input voltages of 12.2V. We have called this regenerative braking friendly (RBF).

### Versatility

The **Pro Charge B** can operate in countless setups, in many environments and in any multitude of configurations. The diagrams above are simply 2 common examples.