

PROBOOST



BM PRO's ProBoost is a multi-stage DC-to-DC battery charger that enables the charging of a secondary battery using solar panels and/or a towing vehicle's 12V electrical system.

The ProBoost blends both solar and auxiliary inputs to ensure there is always a consistent charge to your battery.

The ProBoost is available in two models, the **ProBoost25** and the **ProBoost40** to suit your charging needs.

KEY FEATURES

- ▶ Compatible with lead-acid and lithium LiFePO4 batteries
- ▶ 25A (ProBoost25) or 40A (ProBoost40) solar MPPT regulator
- ▶ Dual input from both solar and vehicle auxiliary
- ▶ High power density design provides efficiency up to 93% (**ProBoost25**) or 95% (**ProBoost40**)
- ▶ Ultra-thin design suitable for limited installation space
- ▶ Excellent performance in harsh environments
- ▶ Resistant to shaking, wet, dusty or muddy environments
- ▶ Smart alternator compatible
- ▶ Overtemperature, overvoltage, undervoltage and reverse polarity protection

SPECIFICATIONS	
Input Voltage	9 to 18V
Solar Input Voltage	10 to 32V
Maximum Input Current	ProBoost25: 27A ProBoost40: 47A
Input Fuse Rating	ProBoost25: 40A ProBoost40: 60A
Output Current	ProBoost25: 25A ProBoost40: 40A
Output Fuse Rating	ProBoost25: 40A ProBoost40: 60A
Minimum Start Voltage	Lead-Acid: 4V LiFePO4: 0V
Standby Current	<15mA
Battery Type	STD, Gel, AGM, Calcium, LiFePO4
Operating Temperature	-20°C to 80°C
IP Rating	IP66
Dimensions	ProBoost25: 145mm x 130mm x 43mm ProBoost40: 183mm x 130mm x 43mm
Charge Type	3-Stage
Maximum Voltage	STD: 14.4V Gel: 14.1V AGM: 14.7V Calcium: 15.3V LiFePO4: 14.5V
Float Voltage	STD: 13.4V Gel: 13.5V AGM: 13.4V Calcium: 13.6V LiFePO4: 13.6V
Turn On Input Voltage	12V Standard Alternator: >13.1V 12V Smart Alternator: >12.0V
Turn Off Input Voltage	12V Standard Alternator: <12.8V 12V Smart Alternator: <11.8V

FREQUENTLY ASKED QUESTIONS

What size fuses do I need to use with the ProBoost?

The following fuse sizes are recommended for the ProBoost:

CABLE	CABLE COLOUR	FUSE RECOMMENDATION
Solar	Green	ProBoost25: 40A ProBoost40: 60A
Alternator	Yellow	
Output	Red	3A
Ignition	Blue	

How do I connect solar panels to the ProBoost?

Connect the green solar cable from the ProBoost to the positive (+) pole of the solar panel. Then connect the negative pole of the solar panel to the common ground cable or vehicle chassis ground.

How do I mount the ProBoost?

Securely mount the ProBoost to any suitably strong flat surface. Install the ProBoost inside your caravan or camper trailer, preferably close to the auxiliary battery.

What size cables do I need to use with the ProBoost?

The following cable sizes are recommended for the ProBoost:

CABLE	CABLE COLOUR	<5M	<10M
Solar	Green	ProBoost25: 10 AWG	ProBoost25: 8 AWG
Alternator	Yellow		
Output	Red	ProBoost40: 8 AWG	ProBoost40: 6 AWG
Ground	Black		
Ignition	Blue	20 AWG	