

PROBOOST25 OVERVIEW

BMPRO's ProBoost25 is a multistage DC-to-DC battery charger that allows you to charge a secondary battery using solar panels and/or a towing vehicle's 12V electrical system.

The ProBoost uses either solar or 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.

OPERATION

The ProBoost is designed as a standalone system. It is designed to take current from a vehicle battery and boost the voltage at the Aux battery to provide maximum amps.

The ProBoost can output up to 40A. This depends on cable sizes due to voltage drop.

The ProBoost will either charge from an alternator source or from a solar array, but not both together. Blended mode doesn't charge from both sources, it switches off the charging source based on the power of the charging sources.

The threshold for switching between solar and alternator mode is 200W.

KEY FEATURES

- Compatible with lead-acid and lithium LiFePO4 batteries
- Combined charging from DC and solar
- MPPT solar regulator
- High power density design provides efficiency up to 93%
- 3-stage charge algorithm
- 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
- 2 year warranty

QR CODES



Manual



Install Guide



Product Page



FAQs



Datasheet



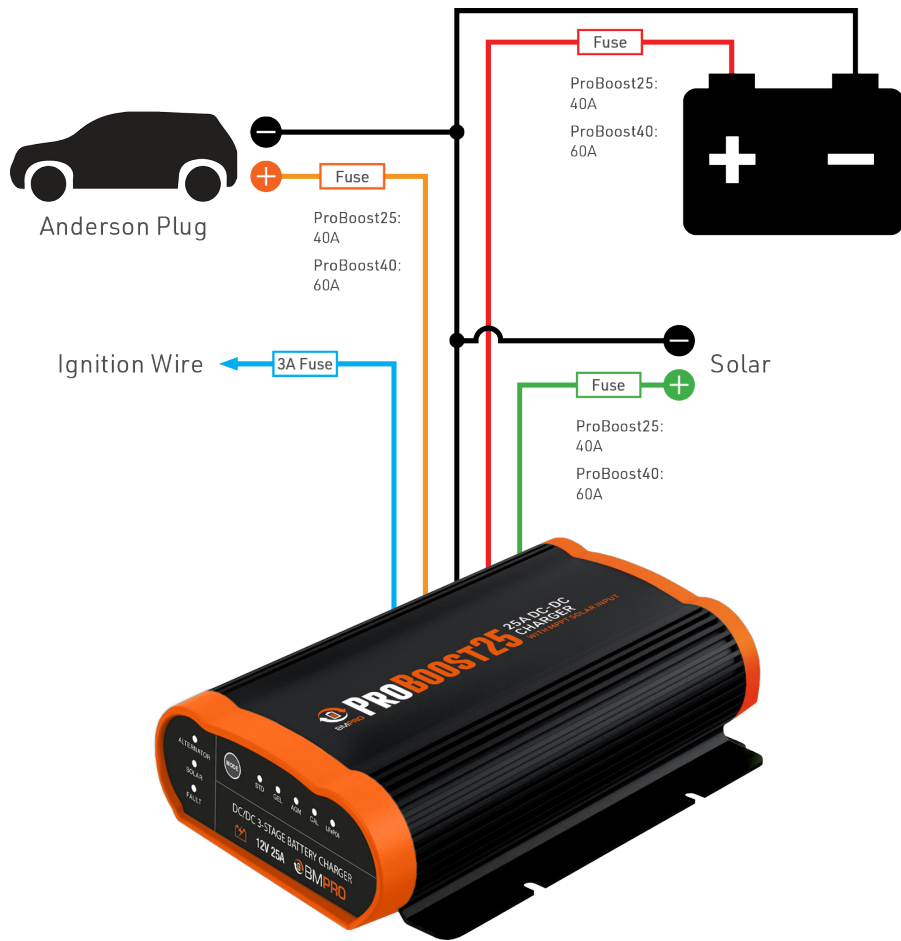
YouTube



PROBOOST25 SPECIFICATIONS

| | |
|------------------------|---|
| Input Voltage | 9-18V |
| Solar Input Voltage | 10-25V |
| Maximum Input Current | 27A |
| Input Fuse Rating | 40A |
| Solar Input Watts | 500W |
| Output Current | 25A |
| Output Fuse Rating | 40A |
| Minimum Start Voltage | Lead-Acid: 4V LiFePO4: 0V |
| Standby Current | <10mA |
| Battery Type | STD, Gel, AGM, Calcium, LiFePO4 |
| Operating Temperature | -20°C to 80°C |
| IP Rating | IP56 |
| Dimensions | 145mm 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 |

WIRING DIAGRAM



TYPICAL SET-UP

