

# PROBOOST40 OVERVIEW

BMPRO's ProBoost40 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 350W.

## 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 95%
- 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



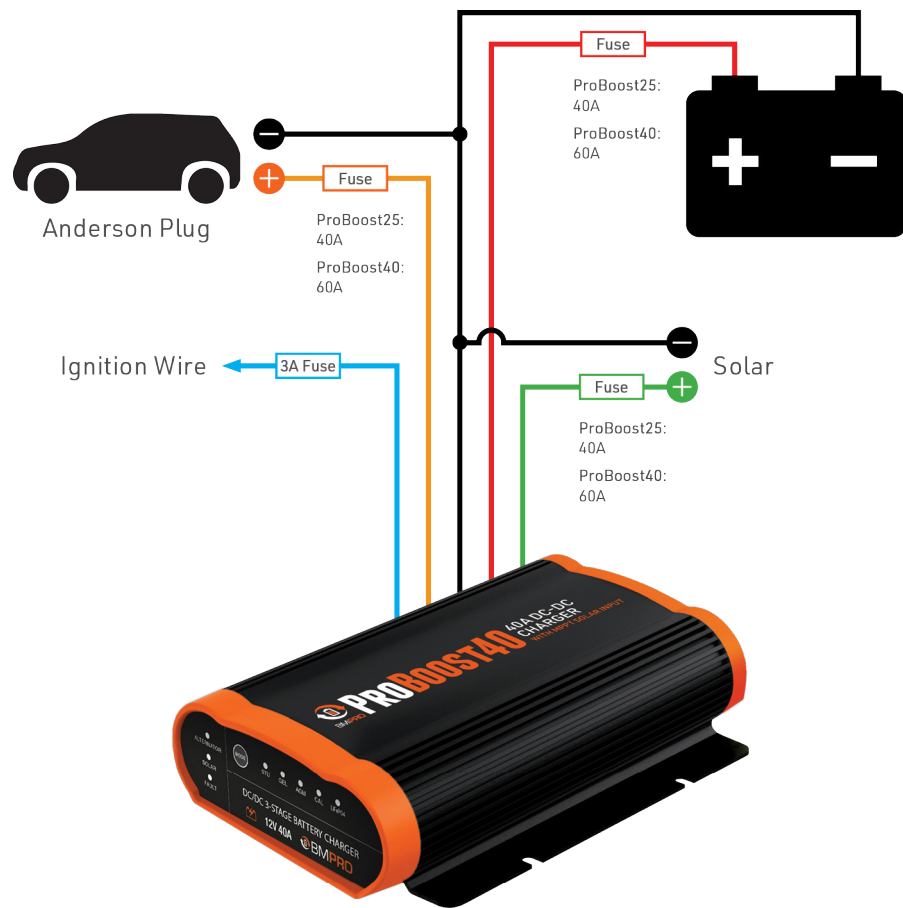
YouTube



## PROBOOST40 SPECIFICATIONS

Input Voltage	9V to 18V
Solar Input Voltage	10V to 32V
Maximum Input Current	47A
Input Fuse Rating	60A
Output Current	40A
Output Fuse Rating	60A
Minimum Start Voltage	Lead-Acid: 4V LiFePO4: 0V
Standby Current	<10mA
Efficiency	95%
Battery Type	STD, Gel, AGM, Calcium, LiFePO4
Operating Temperature	-20°C to 80°C
IP Rating	IP66
Dimensions	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

## WIRING DIAGRAM



## TYPICAL SET-UP

