BMPRO HELP GUIDE

INSTALLING A PROBOOST DC-DC AND MPPT CHARGER WITH A BMPRO POWER MANAGEMENT SYSTEM





A ProBoost DC-DC charger with MPPT solar regulator can be added to your BMPRO power management system to increase solar and auxiliary charging capacity of your system.

The ProBoost output will need to be connected to your caravan battery bank directly using either a BC300 + CommLink or a PXShunt500, which are external shunts that integrate with BMPRO power management systems. This will ensure the power management system displays the correct power information such as state of charge and charging currents from the ProBoost.

INCREASES TO CHARGING CAPACITY USING A PROBOOST40

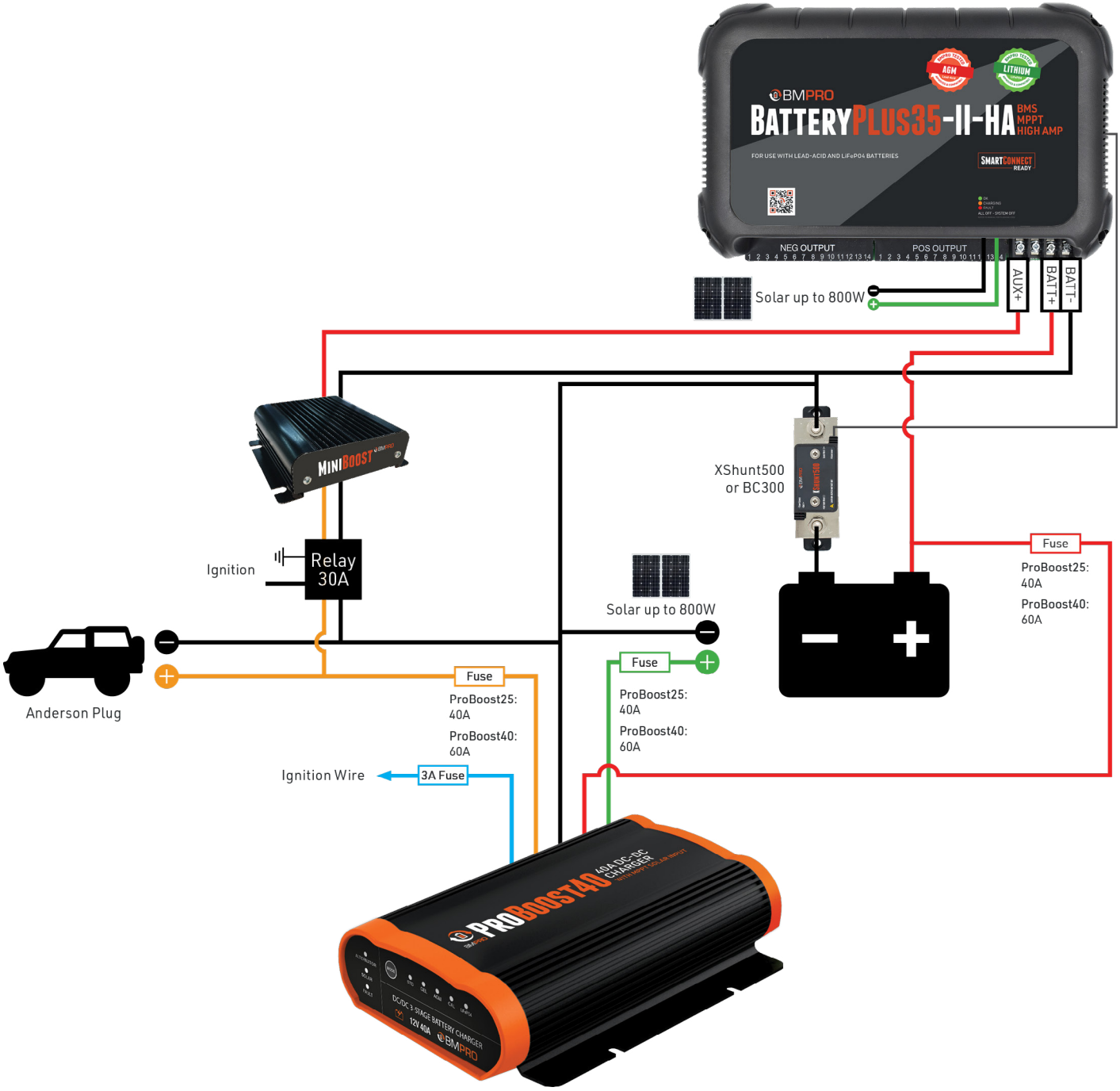
Existing Power Management System	Current Charging Capacity			Charging Capacity with ProBoost40		
	Solar Amperage	Max Solar Wattage	Auxiliary Amperage	Solar Amperage	Max Solar Wattage	Auxiliary Amperage
J35A	N/A	N/A	15A	40A	800W	55A
J35B-L	20A	300W	30A	60A	1100W	70A
J35D	30A	450W	30A	70A	1250W	70A
Aspero	30A	450W	30A	70A	1250W	70A
BP35-II-SI	20A	240W	30A	70A	1040W	70A
BP35-II-HA	30A	800W	30A	70A	1600W	70A

INCREASES TO CHARGING CAPACITY USING A PROBOOST25

Existing Power Management System	Current Charging Capacity			Charging Capacity with ProBoost25		
	Solar Amperage	Max Solar Wattage	Auxiliary Amperage	Solar Amperage	Max Solar Wattage	Auxiliary Amperage
J35A	N/A	N/A	15A	25A	500W	40A
J35B-L	20A	300W	30A	45A	800W	55A
J35D	30A	450W	30A	55A	950W	55A
Aspero	30A	450W	30A	55A	950W	55A
BP35-II-SI	20A	240W	30A	55A	740W	55A
BP35-II-HA	30A	800W	30A	55A	1300W	55A

WIRING DIAGRAM

Refer to the ProBoost, PXShunt500 or BC300 + CommLink manuals for more detailed information on installation and use of the product.



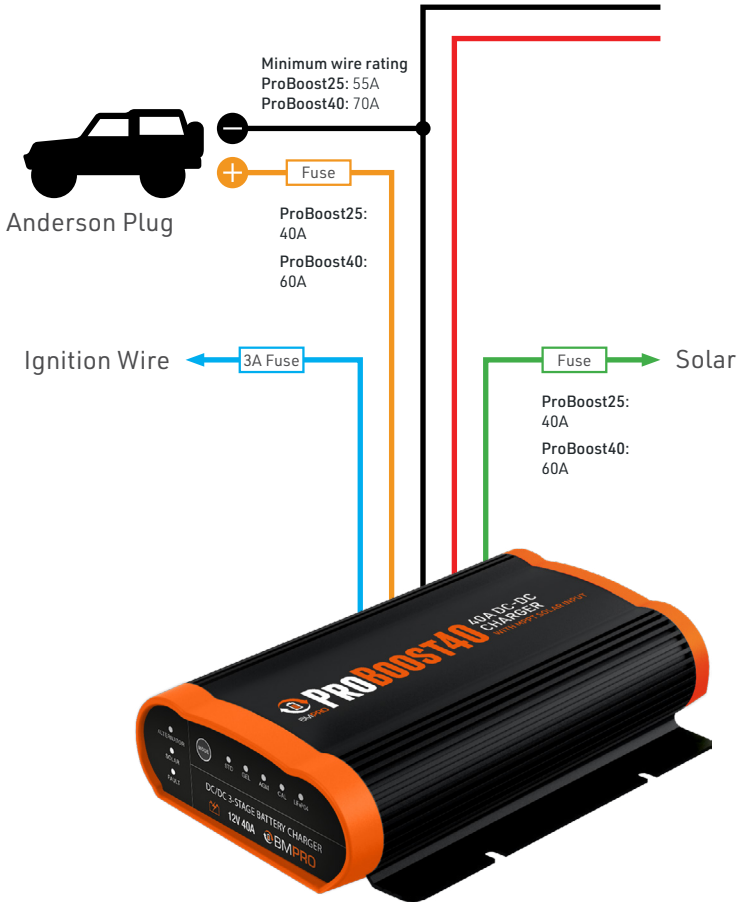
AUXILIARY WIRING

Ensure all wiring is sized to be suitable for the maximum current it will be required to carry.

If the ProBoost is being installed from the tow vehicle auxiliary where a MiniBoostPRO or auxiliary input on the power management system is also installed, the cable size and connector needs to be rated to carry minimum 70A from the alternator/starter battery.

Product	Minimum Recommended Wire Size
ProBoost40 Add-on	6AWG / 2x6 B&S
ProBoost25 Add-on	8AWG / 2x8 B&S

If long wire lengths are required, the wire size may need to be increased to prevent voltage drop.

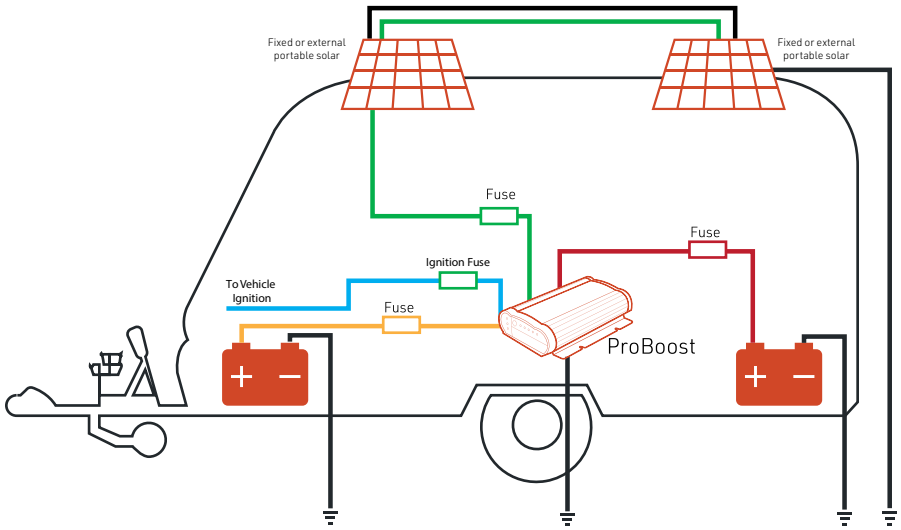


SOLAR INSTALLATION

Solar panels can be connected to the ProBoost up to the maximum limits outlined below.

Model	Maximum Solar Panel Wattage	Maximum Input Voltage
ProBoost40	800W	25V
ProBoost25	500W	25V

Refer to the solar panel installation instructions and AS/NZS3001.2:2022 for information on installing solar panels.



Solar panels can be connected to both the power management system solar input and the ProBoost solar input to achieve the maximum charging capacity.

Existing Power Management System	Solar Panels to Power Management System
J35A	N/A
J35B-L	300W
J35D	450W
Aspero	450W
BatteryPlus35-II-SI	240W
BatteryPlus35-II-HA	800W

INSTALLATION LOCATION

The ProBoost is designed to be installed in a variety of environments including interior or exterior to a vehicle or caravan, as well as under-bonnet.

The ProBoost can be installed in any orientation.

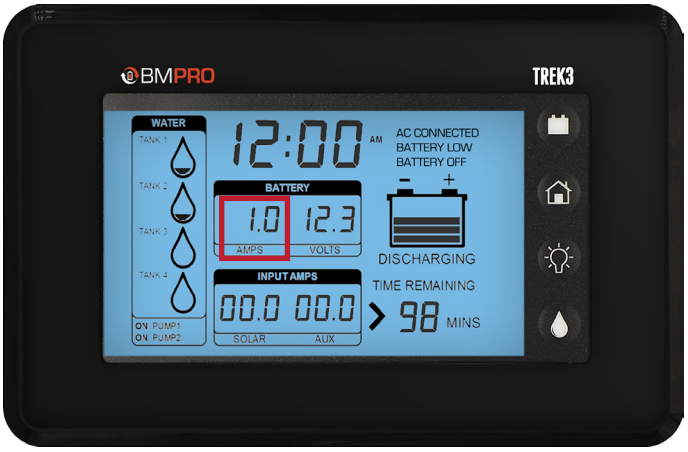
Installation should take place in a well-ventilated area that allows for continuous airflow around the unit to prevent overheating. Overheating the ProBoost will affect optimal operation.

INTERPRETING POWER INFORMATION

With the addition of the ProBoost, any charge current from the ProBoost will be displayed by the power management system as battery current while charging.

The ProBoost user interface will indicate if the source is solar or auxiliary.

Any charge from the power management system will be shown both as solar or auxiliary input and make up part of the total battery current.





If loads are in use while charging, they will be deducted from the total battery current.

Any difference between load/charging current and battery current may show as solar input current as the source on any connected battery monitor.