BMPRO

OWNER'S MANUAL

POWERPLUSDISPLAY5



TEAMBMPRO.COM

SAFETY PRECAUTIONS

Please read the Safety Precautions before installing or using the PowerPlusDisplay5. Be sure to observe all precautions without fail. Failure to observe these instructions properly may result in personal damage, or personal injury which depending on the circumstances may be serious and cause loss of life.

WARNING
WARNING: Do not ingest battery. Chemical Burn Hazard This product contains a coin/button cell battery. If the coin/button battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
Do not drop or vigorously shake the product as this may cause damage. Do not shock the product, its accessories or batteries as this may cause the product or battery to fail, catch fire or explode.
Stay away from magnetic equipment. Radiation may erase the information stored on this product causing it to become inoperative.
Please note that your battery can only reach top performance level only after it has been fully charged and discharged two or three times.
Keep this product and your battery dry and do not expose it to water or water vapour. Do not use this product in areas where it can fall into water, such as, for example, near a pool, pond or bath. Do not operate this product or your battery with wet hands. Contact with water will cause the product or your battery to short-circuit or corrode and may result in electric shock.
Do not use this product in environments that are excessively hot, cold, dusty or humid or where it will be exposed to magnetic fields or long periods of sunshine. Such exposure may cause the product or your battery to fail, catch fire or explode.
Product specifications are subject to change and improve without notice.

BMPRO
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Proudly designed in Melbourne by BMPRO, one of Australia's leading power solution experts. Our range represents high-quality products that will provide years of service.

DISCLAIMER: BMPRO accepts no liability for any loss or damage which may occur from the improper or unsafe use of its products. Warranty is only valid if the unit has not been modified or misused by the customer.

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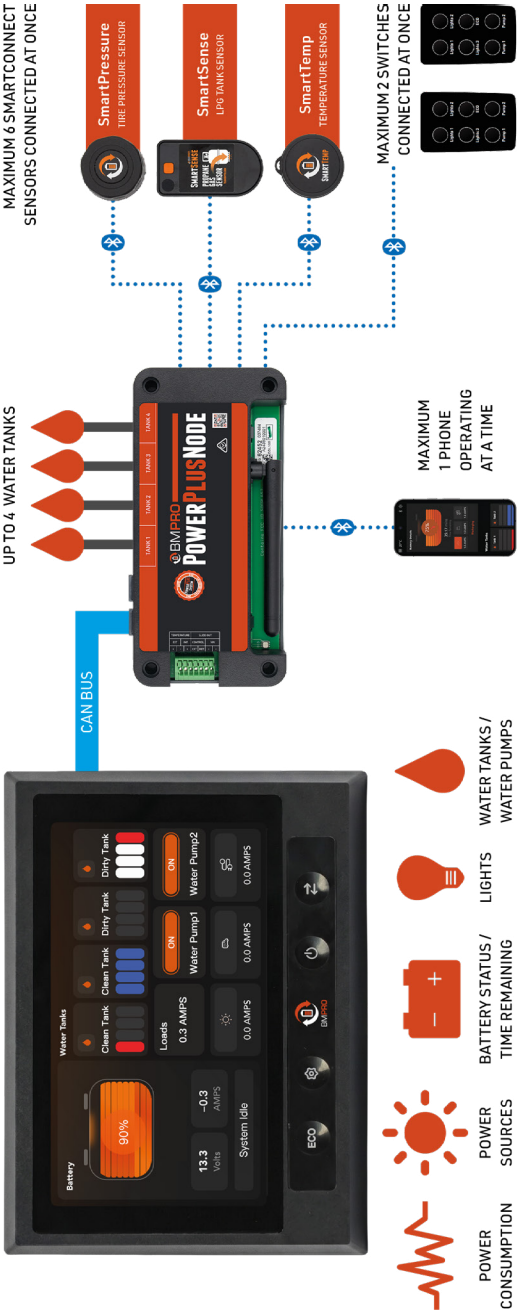
ABOUT THE POWERPLUSDISPLAY5

The PowerPlusDisplay5 is a sleek, in-built battery monitor and control console that operates with BMPRO's PowerPlus system via the PowerPlusNode.

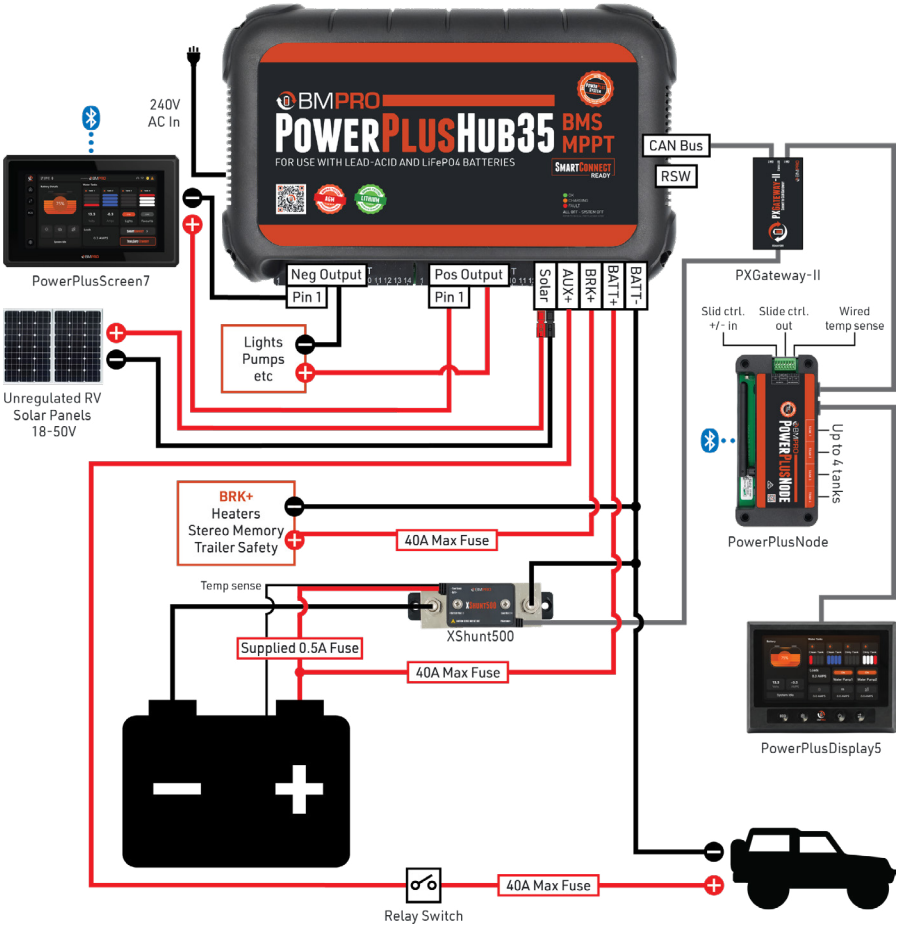
The PowerPlusDisplay5 gives you a new level of comfort and knowledge about your caravan's battery and power consumption including:

- Full visibility and control of the caravan's battery system including battery status, power consumption and available charge sources
- Monitoring of clean and dirty water tanks.
- Control of caravan features, including lights, slide-outs and water pumps.

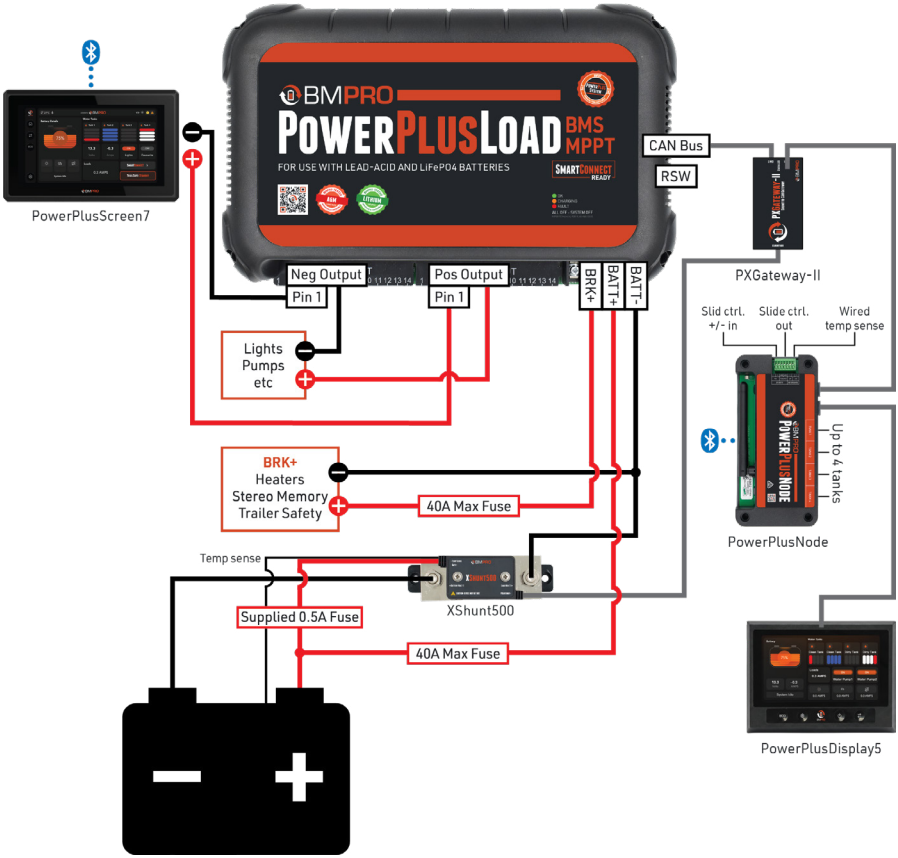
POWERPLUSDISPLAY5 SYSTEM DIAGRAM



POWERPLUS SYSTEM DIAGRAM WITH POWERPLUSHUB35



POWERPLUS SYSTEM DIAGRAM WITH POWERPLUSLOAD



CONFIGURING A BATTERY WITH THE POWERPLUSDISPLAY5

When using the PowerPlusDisplay5 for the first time, or whenever you replace your battery, you must make sure the battery is configured with the PowerPlusDisplay5.

Correctly configuring the battery chemistry and battery capacity will ensure that the PowerPlus system will select the best charging parameters for the caravan battery in use and the software accurately estimates battery usage, including battery capacity and time remaining.

To configure a new battery:

1. Press the Settings button .
2. In the **Settings** screen, press the Power button or the Output button to navigate to **Battery.** Press the ECO Mode button to select it.
3. In the Battery screen, with **Battery Capacity(Ah)** highlighted, press the ECO Mode button to select it.
4. With the option selected, press the Power button or the Output button to select your battery's battery capacity in ampere-hours.
5. Press the Settings button to set the capacity.
6. Press the Power button or the Output button to navigate to **Battery Type.** Press the ECO Mode button to select it.
7. Press the Power button or the Output button to choose between LiFePO4 and Lead-Acid.
8. Press the Settings button to set the battery type.
9. Press the Settings button again to go back and save your selection.

The battery is now configured.

USING THE POWERPLUSDISPLAY5

MAIN SCREEN



1. **Battery State of Charge**
   Displays the battery state of charge. An arrow indicates if the battery is charging or discharging.
2. **Voltage Status**
   Displays the voltage of the connected battery.
3. **Amperage Status**
   Displays the current of the connected battery.
4. **Battery Status**
   Displays whether the battery is charging, discharging or idle.
5. **Water Tank Status**
   Displays the status of any connected water tanks.
6. **Load Status**
   Displays the current supplied to power all loads connected to the PowerPlusHub35 or PowerPlusLoad.

7. **Output Control 1**
   Displays the status and controls output 13 (water pump 1) connected to the PowerPlusHub35 or PowerPlusLoad.

   Turn this output on or off by pressing the output button .

8. **Output Control 2**
   Displays the status and controls output 14 (water pump 2) connected to the PowerPlusHub35 or PowerPlusLoad.

   Turn this output on or off by long pressing the output button  until the status of the output changes.

9. **Solar Charging Source**
   Highlights in orange if the battery charge source is available from solar. Only available when used with a PowerPlusHub35.

10. **Auxiliary Charging Source**
    Highlights in orange if the battery charge source is available from auxiliary. Only available when used with a PowerPlusHub35.

11. **AC Charging Source**
    Highlights in orange if the battery charge source is available from AC power. Only available when used with a PowerPlusHub35.

12. **Eco Mode Button**
    Used to enter or exit Eco Mode.

13. **Settings Button**
    Used to display the Settings screen.

14. **Power Button**
    Used to turn the PowerPlusDisplay5 on or off.

15. **Switch Control Button**
    Used to switch outputs displayed on the PowerPlusDisplay5.

ECO MODE

Press the ECO Mode button 

to put the PowerPlusHub35 or PowerPlusLoad into ECO Mode.

In ECO Mode:

- Power is stopped to all caravan loads connected to the PowerPlusHub35 or PowerPlusLoad load terminal block, except Terminal 1.
- Load control from the PowerPlus app is disabled.
- The Loads view on the PowerPlusDisplay5 will display **ECO**.
- Battery capacity and current consumption can still be viewed on the PowerPlusDisplay5.

The PowerPlusHub35 or PowerPlusLoad will automatically enter ECO Mode if the caravan's battery voltage becomes low, even if the ECO Mode button is not pressed.

To disable ECO Mode, press the ECO Mode button 

again.

Storage Mode

If the caravan's battery voltage continues to drop, the PowerPlusHub35 or PowerPlusLoad will enter **Storage Mode**.

In Storage Mode:

- The PowerPlusNode no longer receives power through the communication bus.
- Bluetooth connection is disconnected, and battery monitoring is no longer available.

These actions reduce power consumption and help protect the remaining battery charge until the battery can be recharged.

You can manually enter Storage Mode by using a remote switch connected to the PowerPlusHub35 or PowerPlusLoad.

To restore load control, switch the remote switch off.

POWERPLUSDISPLAY5 SETTINGS

To access PowerPlusDisplay5 settings, press the Settings button 

Within the Settings screen, you can:

- Set how outputs are displayed.
- Configure water tanks.
- Set your battery settings.
- View information about your PowerPlus system.
- Set the battery low voltage alarm limit.
- Perform a factory reset.

OUTPUT SETTINGS

The output labels on the PowerPlusDisplay5 main screen can be changed in the Outputs screen.

Each output can be displayed as any of the following:

- Water Pump 1
- Water Pump 2
- Light 1
- Light 2
- Bedroom Light
- Bathroom Light
- Kitchen Light
- Exterior Light
- Bathroom Fan
- Kitchen Fan
- Pressure Fan
- Fan 1
- Fan 2
- Fridge
- Heater
- TV
- Radio
- Output 1
- Output 2

To change an output label:

1. Press the Settings button .
2. In the **Settings** screen, with **Outputs** highlighted, press the ECO Mode button  to select it.
3. In the **Outputs** screen, press the Power button  or the Output button  to navigate the output you want to update. Press the ECO Mode button  to select the output.
4. In the label screen, press the Power button  or the Output button  to navigate to the label you want for the output. Press the ECO Mode button  to select the label.
5. Press the Settings button  to go back and save your selection.

The output label will now be updated on the main screen.

TANK CONFIGURATION

Water tanks can be configured from the Water Tanks setting screen.

Tanks can be enabled or disabled, and set to be either dirty or clean.

To configure water tanks:

1. Press the Settings button .
2. In the **Settings** screen, press the Power button  or the Output button  to navigate to **Tanks**. Press the ECO Mode button  to select it.
3. In the **Tanks** screen, press the Power button  or the Output button  to navigate the tank option you want to update. Press the ECO Mode button  to select the option.
4. With the option selected, press the Power button  or the Output button  to navigate to the setting you want for the option. Press the Settings button  to select the setting.
5. Press the Settings button  again to go back and save your selection.

The tank will now be updated on the main screen.

BATTERY SETTINGS

Battery capacity and battery type can be configured from the Battery setting screen.

For more information, refer to **Configuring a Battery with the PowerPlusDisplay5** section.

ABOUT

The About screen displays information about your PowerPlus system.

BATTERY LOW VOLTAGE ALARM LIMIT

How can configure the threshold for when a battery low voltage alarm will be triggered.

To configure the battery low voltage alarm limit:

1. Press the Settings button .
2. In the Settings screen, press the Power button or the Output button to navigate to **Advanced**. Press the ECO Mode button to select it.
3. In the **Advanced** screen, with **Battery Low Voltage Alarm Limit** highlighted, press the ECO Mode button to select it.
4. In the **Battery Low Voltage Limit** screen, press the ECO Mode button to select the option.
5. With the option selected, press the Power button or the Output button to navigate to the value you want for the option. The battery low voltage limit can be configured in steps of 0.1V. Press the Settings button to select the setting.
6. Press the Settings button again to go back and save your selection.

The battery low voltage alarm limit has been updated.

FACTORY RESET

You can perform a factory reset of the PowerPlusDisplay5 and restore everything to their default settings through the Settings screen.

To perform a factory reset:

1. Press the Settings button .
2. In the Settings screen, press the Power button  or the Output button  to navigate to **Advanced**. Press the ECO Mode button  to select it.
3. In the **Advanced** screen, press the Power button  or the Output button  to navigate to **Factory Reset**. Press the ECO Mode button  to select it.
4. Press the ECO Mode button  to select yes.

The PowerPlusDisplay5 has now been restored to factory default settings.

FAQS AND TROUBLESHOOTING

Need more help troubleshooting your PowerPlusDisplay5? Contact our customer service team on line at **teambmpro.com/technical-support** or check out our how-to videos on our YouTube channel at **youtube.com/c/bmproau**

I think one of my loads is not receiving power?

The load may be faulty. The electronic load fuse that protects the load may have been activated, which will turn the faulty load off. If this is the case, the LED Status Indicator on the PowerPlusHub35 or PowerPlusLoad will flash a solid red.

Please disconnect the faulty load from the PowerPlusHub35 or PowerPlusLoad.

I've fitted a battery, but it's not detected in the PowerPlusDisplay5?

Check the following:

1. The battery connections are tight and not loose or corroded.
2. The battery polarity, red lead-positive and black lead-negative.
3. The fitted in-line fuse for the caravan battery is fitted and not blown.

SPECIFICATIONS

POWERPLUSDISPLAY5	
Dimensions	154mm x 110mm x 16mm

WARRANTY TERMS AND CONDITIONS

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is provided by BMPRO Pty Ltd (59 646 354 127) ("BMPRO") for its products. Warranty benefits are applied along with any rights and remedies required by Australian State and Federal legislation that cannot be excluded. No part of this warranty excludes, restricts or modifies any State or Federal legislation relating to the supply of goods and services which cannot be excluded, restricted or modified.

WARRANTY

BMPRO warrants that the product will be free from any faults in materials and workmanship beginning from the original date of purchase under standard application, installation, use and service conditions, subject to the exclusions and limitations detailed below. The warranty period of the product is two years.

If, before the warranty period has ended, a fault occurs with the product and BMPRO finds the product is defective in materials or workmanship, BMPRO at its discretion will subject to further rights accorded by the Australian Consumer Law to either:

- Repair the defective product
- Replace the defective product
- Provide a refund to the purchaser for the price paid at purchase for the defective product.

WARRANTY CLAIMS

Refer to your manual before using the product. Most BMPRO products are designed to be installed by a suitably qualified installer. The products should be carefully inspected by you or your installer before installation for any visible manufacturing faults. If a product has been installed incorrectly, BMPRO accepts no responsibility on top of our consumer guarantee obligations.

1. If a fault covered by warranty occurs, the purchaser must either contact the dealer where the product was purchased within 7 days, or BMPRO at the contact details listed.
2. All warranty claims must include: (a) proof of purchase of the product; (b) complete details of the alleged fault; (c) any relevant documentation related to the fault (such as photographs or maintenance records); (d) return material authorisation (RMA) number.
3. The product must be made available to BMPRO or its authorised installer for inspection and testing within 14 days of contacting BMPRO or the dealer.
4. The reasonable cost of delivery and installation of any products or components of products that have been repaired or replaced to the place of purchase notified to BMPRO is covered by the warranty provided by BMPRO, along with the reasonable costs of removal and return of any products determined by BMPRO to be defective.
5. If, on return to BMPRO or on investigation by BMRPO, inspection and testing determines there is no fault in the product, the purchaser must pay BMPRO's reasonable costs of testing and investigating the product, as well as transportation and shipping costs.

REGISTER A WARRANTY OR REPAIR WITH BMPRO

To register a warranty or repair with BMPRO:

1. Lodge a support request via teambmpro.com/technical-support or email customerservice@teambmpro.com
2. If agreed with the BMPRO Product Specialist team, register a warranty claim or repair via teambmpro.com/warranty-claim or email customerservice@teambmpro.com to obtain a Return Material Authorisation (RMA) number.
3. Package and send the product to the BMPRO Warranty Department. The BMPRO Product Specialist team will advise you where to send the product. Please mark RMA details on the outside of the packaging.
4. Ensure your package also includes a copy of the proof of purchase, a complete description of the fault and your contact details including phone number and return address.

EXCLUSIONS

This warranty will not be applicable where: (a) the product has been altered, modified or repaired by someone other than BMPRO, an authorised installer or a qualified auto electrician; (b) the product has not been installed properly by either the user or manufacturer; (c) BMPRO cannot establish a fault in the product after inspection and testing; (d) the product has been used for purposes other than that for which it was designed; (e) the fault in the product has occurred due to a failure by the purchaser to ensure proper use and maintenance of the product according to BMPRO's instructions, recommendations and specifications (including maintenance); (f) the product has been subjected to abnormal conditions, such as environmental, temperature, water, fire, humidity, pressure, stress or similar; (g) the fault has been caused by abuse, misuse, neglect or accident; (h) the fault has been caused by a power surge or other kind of fault in the supply of electricity; (i) unauthorised parts or accessories have been used on or in relation to the product; (j) the appearance of the Product has deteriorated; or (k) the fault is a result of common wear & tear.

LIMITATIONS

No express warranties or representations are made by BMPRO other than what is set out in this warranty. The absolute limit of BMPRO's liability under this express warranty is the repair or replacement of the product or part of the product.

CONTACT

BMPRO's contact details for warranty claims are:

Phone: (03) 9763 0962
Email: **customerservice@teambmpro.com**

Warranty Claim and Product Repair Form:
https://teambmpro.com/warranty-claim/

Registering your BMPRO product is an important step to ensure that you receive all the benefits you are entitled to.

Please complete the online registration form at **https://teambmpro.com/product-registration/** for your new product today.

POWERING YOUR ADVENTURES

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