BMPRO

OWNER'S MANUAL

BATTERYCHARGE7.5

TEAMBMPRO.COM

SAFETY PRECAUTIONS

Please read the Safety Precautions before installing or using the BatteryCharge7.5. 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	
⚠	Correct installation is the most critical factor in ensuring the safe use of the BatteryCharge7.5. If every consideration of these instructions has been satisfied, the BatteryCharge7.5 will be safe to operate.
⚠	This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack or experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
⚠	The BatteryCharge7.5 is not intended for charging batteries while the vehicle is in operation. Always turn off the ignition before connecting the BatteryCharge7.5 and commencing battery charging.
⚠	Metal conducts electricity. Take care not to drop or touch metal objects onto the battery terminals, which if contacts the battery terminals, could cause short circuits and may lead to serious personal injury. Take care and remove unwanted metal objects from the vicinity of the battery and BatteryCharge7.5. Remove any personal metal adornment such as chain, watch or ring before handling the battery and BatteryCharge7.5.
⚠	Do not replace a damaged mains power cord. If the power cord is damaged, the product must be discarded.
⚠	Batteries are always electrically live and must be treated with extreme caution. They can supply high short circuit currents, even if they appear damaged or undamaged.
⚠	Only charge battery types which are supported by this charger (see "Compatible Battery Types")
⚠	Electricity and water do not mix. Keep this product and your battery dry and do not expose it to water or water vapour. Do not operate this product or battery near any sort of liquid. Do not operate this product with wet hands.
⚠	The BatteryCharge7.5 is a high precision electronic product. It contains no user-serviceable parts inside. Do not try to dismantle, modify or repair it yourself. Disassembly, service or repair by an unauthorised person will void the warranty.

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 BATTERYCHARGE7.5

BMPRO's BatteryCharge7.5 is a high-performance charger designed for use with a range of ecreational vehicle batteries such as car, caravan, motorbike and even heavy-duty vehicles, and with a range of battery chemistries.

The BatteryCharge7.5 charging process automatically sets the charging current for the battery, up to a maximum of 7.5A, depending on the chathe mode.

ADDITIONAL FEATURES

- Cold mode charging, to charge your lead-acid batteries even in cold weather conditions.
- Recovery mode charging, to regenerate deeply discharged lead-acid batteries.
- Automatic reduction of charging current, to protect both the battery and BatteryCharge7.5 from damage caused by overheating.
- Reverse polarity, short-circuit and overload protection when charging. You can safely leave your battery connected to the BatteryCharge7.5 knowing that your battery won't spark or overheat.
- Power supply mode.

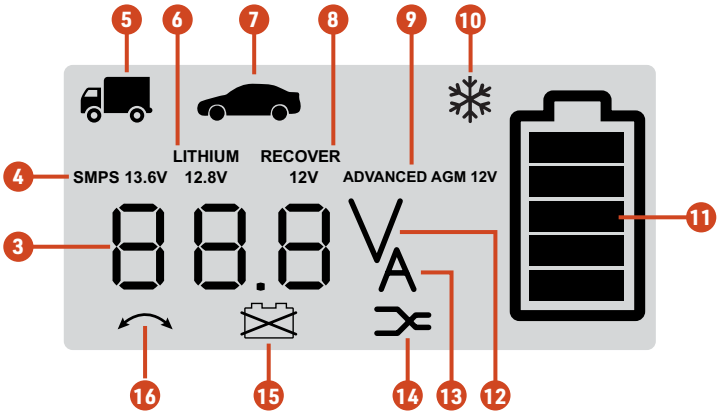
COMPATIBLE BATTERY TYPES

The BatteryCharge7.5 may be used to charge the following batteries:

- 18-240Ah, 12V Lead-acid (AGM, gel, calcium, wet) battery
- 10-120 Ah, 24V Lead-acid (AGM, gel, calcium, wet) battery
- 10-80Ah, 12.8V LiFePO4 lithium battery

DESCRIPTION OF PARTS

1. **Mounting Points**
   Used to mount the BatteryCharge7.5.
2. **Mode Selection Button**
   Used to change the BatteryCharge7.5's operating mode.



3. **Current/Voltage Value**

   The value of the current or voltage of the connected battery.

4. **13.6V 5A Power Supply Indicator**

   Displays when the BatteryCharge7.5 is being used as a 13.6V 5A power supply

5. **24V Battery Mode**
6. **Lithium Battery Mode**

   For use only with 12.8V 3.0A 4-cell LiFePO4 lithium batteries.

7. **12V Battery Mode**
8. **Recovery Mode**

   For attempting to recover 12V batteries that won't charge.

9. **AGM Battery Mode**

   For use only with 12V AGM batteries.

10. **Cold Mode**

    For use when the battery temperature is below 5°C.

11. **Charging Battery Level**

    Indicator flashes when charging. Each bar represents 20% battery charge. 1 bar: 20%, 2 bars: 40%, 3 bars: 60%, 4 bars: 80%, 5 bars: 100%

12. Voltage of Connected Battery
13. Current of Connected Battery
14. Battery Not Connected Indicator

    Flashes when the BatteryCharge7.5 does not detect a connected battery.

15. Faulty Battery Indicator

    Displays when the BatteryCharge7.5 detects a faulty battery.

16. Incorrect Polarity Indicator

    Displays when the BatteryCharge7.5 detects incorrect polarity.

USING YOUR BATTERYCHARGE7.5

⚠ WARNING

Do not use the BatteryCharge7.5 to charge a battery while the battery is in use and drawing current. In these situations, the BatteryCharge7.5 is not guaranteed to charge the battery completely, or keep the battery in a charged state.

CONNECTING THE BATTERYCHARGE7.5

To connect your BatteryCharge7.5:

1. Attach the BatteryCharge7.5's positive (+) red attachment lead to the battery's positive terminal.
2. Attach the BatteryCharge7.5's negative (-) black attachment lead to the battery's negative terminal.
3. Connect the mains lead of the BatteryCharge7.5 to an electrical power outlet socket.

SELECTING CHARGE MODES

Press the MODE button to switch between the different charge modes.

To switch between the Basic and Advanced Charging Mode Menu, press the MODE button for three seconds.

The battery indicator on the BatteryCharge7.5 will flash while the battery is charging and stop flashing when the battery reaches full charge.

Cold mode charging should be used when you are charging the battery in weather conditions below 5°C.

Lithium charging is available only if the voltage on the LiFePO4 battery is between 11.6V and 13.8V.

Main Charging Modes

MODE	USAGE	MAX. CHARGING
	To charge 24V lead-acid batteries	29.0V / 7.5A
	For cold mode charging of 24V lead-acid batteries	29.4V / 7.5A
	To charge 12V lead-acid batteries	14.5V / 7.5A
	For cold mode charging of 12V lead-acid batteries	14.7V / 7.5A

Advanced Charging Modes

MODE	USAGE	MAX. CHARGING
LITHIUM 12.8V	To charge 12.8V LiFePO4 batteries	14.5V / 3.75A
RECOVER 12V	To revive and charge lead-acid batteries with voltages below 12V	14.7V / 7.5A
ADVANCED AGM 12V	To charge lead-acid batteries to a higher voltage limit	15.0V / 7.5A

DISCONNECTING THE BATTERYCHARGE7.5

Once the battery is fully charged, the BatteryCharge7.5 can be disconnected. To disconnect the BatteryCharge7.5:

1. Switch off the mains power supply.
2. Remove the BatteryCharge7.5's negative (-) black attachment lead from the battery terminals.
3. Remove the BatteryCharge7.5's positive (+) red attachment lead from the battery terminals.

SMART CHARGING - MAIN CHARGE MODES

The BatteryCharge7.5 will remember the previously used Main Charging Mode that the device was set to.

If you use the BatteryCharge7.5 to charge the one (or similar types of) lead-acid battery, simply connect the BatteryCharge7.5 to your battery and mains power supply. The Main Charge Mode is already set and the BatteryCharge7.5 will start charging the battery straight away.

Smart charging is unavailable for use with Advanced Charging Modes (Lithium 12.8V, Recover 12V and Advanced AGM 12V).

If the connected battery is incompatible with the selected Charge Mode, the BatteryCharge7.5 will remain in standby and only charge the battery when a compatible Charge Mode is selected.

USING THE BATTERYCHARGE7.5 AS A POWER SUPPLY

The BatteryCharge7.5 may be used as a power supply to power 12V loads rated up to 5A, such as lights or fans.

The option to use Power Supply Mode is only available if the BatteryCharge7.5 is not connected to a battery.

To use the BatteryCharge7.5 as a power supply:

1. Attach the BatteryCharge7.5's positive (+) red attachment lead to the load's positive input.
2. Attach the BatteryCharge7.5's negative (-) black attachment to the load's negative input.
3. Connect the mains lead of the BatteryCharge7.5 to an electrical power outlet socket.
4. Press the MODE button for three seconds.

The BatteryCharge7.5 will automatically enter Power Supply Mode, displaying an output voltage of 13.6V and output current of 5A on the LCD screen.

CLEANING

To clean the housing of the BatteryCharge7.5, use a dry or moist cotton cloth to lightly remove any dust or dirt.

Do not use alcohol, thinners, benzene or any other chemical cleaner as these products may degrade the housing surface.

Do not allow any liquids to enter the housing.

⚠ WARNING

Disconnect the battery and turn off and remove the BatteryCharge7.5 from the mains power supply before cleaning.

BATTERY CHARGING PROCESS

LEAD-ACID CHARGING

The BatteryCharge7.5 uses a 10-stage charging process to charge lead-acid batteries (figure 2). This process is fully automatic with the BatteryCharge7.5 setting charging current according to the charging stage.

Step 1: Check

Checks that the battery is in order before charging starts.

Step 2: Recovery

Applies a pulsed current to promote desulphation of the lead-acid battery.

Step 3: Soft Start

Commences the charging cycle by slowly increasing charging current to the battery.

Steps 4-7: Bulk

Applies the maximum charging current to bring the battery up to 80% capacity. As the battery capacity reaches 80%, charging current is reduced slightly with each bulk stage.

Step 8: Absorption

Slowly reduces charging current while charging the battery up to 100% capacity.

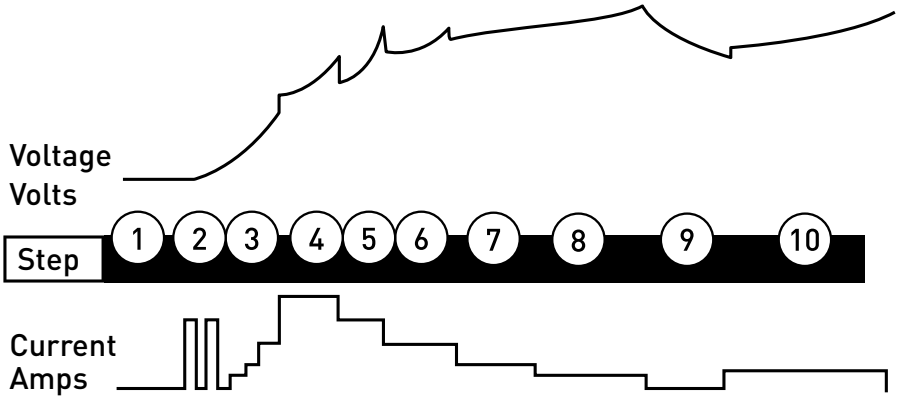
Step 9: Trickle

Monitors the battery voltage and if required, applies enough charging current to maintain the lead-acid battery at full charge without overcharging the battery.

If trickle current is not enough to maintain full charge, the **BatteryCharge7.5** will enter maintenance.

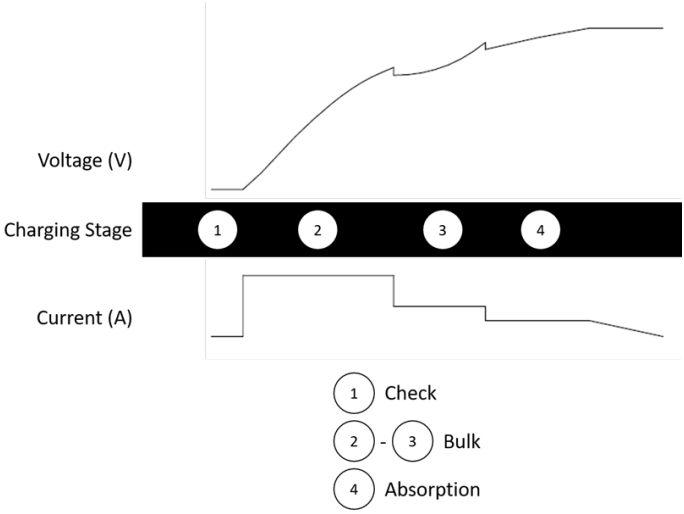
Step 10: Maintenance

Ramps up the charging current to maintain full battery charge or restarts the battery charging cycle if the **BatteryCharge7.5** detects a significant drop in battery voltage.



LITHIUM CHARGING

The BatteryCharge7.5 applies a check-bulk-absorption charging process to charge lithium batteries.



SPECIFICATIONS

BATTERYCHARGE7.5	
Input Voltage Range	220-240V ~50Hz 1.3A
Power Consumption	120W
Reverse Current*	<10mA (no AC input)
Nominal Output Voltage	12VDC / 24VDC / 12.8VDC/ 13.6VDC
Nominal Output Current	7.5A / 3.75A / 5.0A / 5.0A
Charging Voltage	**12V battery:** 14.5V / 14.7V **24V battery:** 29V / 29.4V **12.8V LiFePO4 lithium battery:** 14.5V **Switch mode power supply:** 13.6V
Charging Current	7.5A±10%, 3.75A±10%, 5.0A±10%
Lead-acid Battery Capacity	**12V:** 18-240Ah **24V:** 10-120Ah
Lithium Battery Capacity (12.8V 4-cells LiFePO4)	10-80Ah
Housing Protection Type	IP65 (dust-proof, water-proof)

*Reverse current is the current used by the charging station battery, when no mains current is connected.

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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