BMPRO

OWNER'S MANUAL

BATTERYCHARGE4

TEAMBMPRO.COM

SAFETY PRECAUTIONS

Please read the Safety Precautions before installing or using the BatteryCharge4. 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	
⚠	Ensure that there is good ventilation in the battery area.
⚠	This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance should not be made by children without supervision.
⚠	Batteries are electrically alive at all times and must be treated with extreme caution. They can supply high short circuit currents, even if they appear damaged.
⚠	Take care that dropping or touching of metal objects onto the battery cell does not cause short circuits.
⚠	Remove any personal metal adornment such as a chain, watch or ring, which could cause short circuits and personal injury.
⚠	If the supply cord is damaged, it must not be replaced and the appliance should be scrapped.
⚠	Refer to the installation section before operating. Correct installation is the most critical factor in ensuring the safe use of the power supply. If every consideration of these instructions has been satisfied the power supply will be safe to operate.
⚠	Ensure that the charger is always connected to the battery in the correct polarity.
⚠	Do not attempt to charge non-rechargeable batteries. Charging a non-rechargeable battery may result in the battery catching fire or possible explosion.
⚠	Do not allow water or other liquids to enter the installation area.

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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 BATTERYCHARGE4

The BatteryCharge4 is an automatic battery charger with eight charge states. The BatteryCharge4 is suitable for the charging and maintenance of compatible 6V and 12V lead-acid Batteries (AGM, gel, calcium, wet) as well as LiFePO4 lithium batteries:

- 6V batteries with a capacity of 12-120 Ah.
- Smaller 12V batteries with a capacity of 1.2-12 Ah.
- Larger 12V batteries with a capacity of 12-120 Ah.
- Lithium (12.8V LiFePO4) batteries with a capacity of 8-50 Ah.

The BatteryCharge4 increases your battery's life and gives high-performance, intelligent charging. Equipped with short-circuit and overload protection, the BatteryCharge4 also has a large LCD display panel to let you know the charging progress of your battery.

The BatteryCharge4 may also be used to regenerate completely discharged batteries. The battery charger has protective circuits to prevent it from sparking and overheating.

ADDITIONAL FEATURES

Overheating Protection

If the BatteryCharge4 becomes overheated during charging, the power output is automatically reduced. This protects against damaging both your battery and the charger.

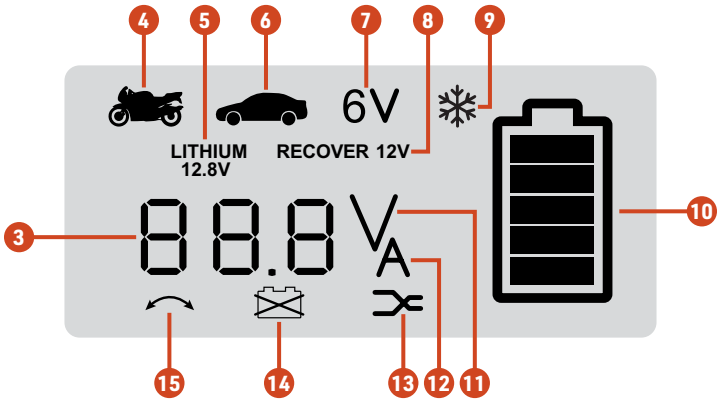
Trickle Charging

Once the battery has been fully charged, the BatteryCharge4 automatically changes to trickle charging. Depending on the measured voltage, the charging is interrupted or the battery is maintained in a fully charged condition with low voltage currents.

A battery can remain permanently connected to the charger without damage or adverse effect on its performance. The trickle charge can be used to maintain a battery.

DESCRIPTION OF PARTS

1. **Mounting Points**
   Used to mount the BatteryCharge4.
2. **Mode Selection Button**
   Used to change the BatteryCharge4's operating mode.



3. **Current/Voltage Value**
   The value of the current or voltage of the connected battery.
4. **Smaller 12V Battery Mode**
   This mode is recommended for smaller 12V batteries up to 20Ah in capacity.
5. **Lithium Battery Mode**
   For use only with 12.8V 3.0A 4-cell LiFePO4 lithium batteries.

6. **Larger 12V Battery Mode**

   This mode is recommended for larger 12V batteries.

7. **6V Battery Mode**
8. **Recovery Mode**

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

9. **Cold Mode**

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

10. **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%

11. **Voltage of Connected Battery**
12. **Current of Connected Battery**
13. **Battery Not Connected Indicator**

    Flashes when the BatteryCharge4 does not detect a connected battery.

14. **Faulty Battery Indicator**

    Displays when the BatteryCharge4 detects a faulty battery.

15. **Incorrect Polarity Indicator**

    Displays when the BatteryCharge4 detects incorrect polarity.

USING YOUR BATTERYCHARGE4

⚠ WARNING

Before installing or re-connecting the BatteryCharge4 always ensure that the mains plug is disconnected from the mains socket.

BATTERY CONNECTION

To connect the BatteryCharge4 to a battery, follow these instructions:

1. Attach the (+) quick-release clamp (red) to the (+) terminal of the battery.
2. Attach the (–) quick-release clamp (black) to the (–) terminal of the battery.
3. Connect the mains lead of the BatteryCharge4 to an electrical power outlet socket.

DISCONNECTION

1. Disconnect the BatteryCharge4 from the mains power.
2. Detach the (–) quick-release clamp (black) from the (–) terminal of the battery.
3. Detach the (+) quick-release clamp (red) from the (+) terminal of the battery.

MEMORY FUNCTION / RESET

After connection to mains power or reconnection to a battery, the BatteryCharge4 automatically returns to the last charge mode run.

However, if that mode is not compatible with the connected battery, the BatteryCharge4 automatically resets and remains in STANDBY mode.

SELECT CHARGING MODE

Press the MODE button repeatedly until the appropriate mode is displayed.

> One of the modes shows only a voltage reading, with no other icons shown. This is called the Standby mode. In this mode the battery is NOT being charged.

To select "Lithium 12.8V" mode or "Recover 12V" mode, hold the mode button down for 3 seconds.

> The lithium mode cannot be selected if the battery voltage is less than 11.6V or greater than 13.8V

CLEANING

Disconnect the BatteryCharge4 from the mains power supply before you begin to clean as there is danger of electrocution.

To clean the housing of the BatteryCharge4, use a soft, dry lint-free cloth to gently wipe off any dust or dirt.

Do not immerse the BatteryCharge4 in water.

BATTERY CHARGING PROCESS

The BatteryCharge4 uses an 8-stage charging process to charge batteries. This process is fully automatic with the BatteryCharge4 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 4-5: Bulk

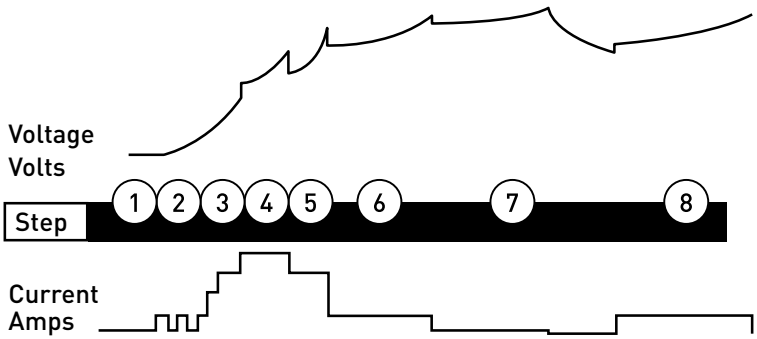
Applies the maximum charging current to bring the battery up to 80% capacity. As the battery capacity reaches 80%, charging current is reduced slightly with each bulk stage.

Step 6: Absorption

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

Steps 7-8: Maintenance

Ramps up the charging current to maintain full battery charge or restarts the battery charging cycle if the BatteryCharge4 detects a significant drop in battery voltage.



SPECIFICATIONS

BATTERYCHARGE4	
Input Voltage Range	220-240V ~ 50Hz 0.6A
Power Consumption	65W
Reverse Current*	<10mA (no AC input)
Nominal Output Voltage	6VDC / 12VDC / 12.8VDC
Nominal Output Current	0.9A / 4.0A / 3.0A
Charging Voltage	**6V battery:** 7.3V / 7.4V **12V battery:** 14.5V / 14.7V **12.8V LiFePO4 lithium battery:** 14.5V
Charging Current	0.9A±10%, 4.0A±10%, 3.0A±10%
Lead-acid Battery	6V/12V 1.2-120Ah
Lithium Battery Capacity (12.8V 4-cells LiFePO4)	8-50Ah
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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customerservice@teambmpro.com
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