

oricom.

BC200

12V/24V Battery Charger and Maintainer

USER MANUAL



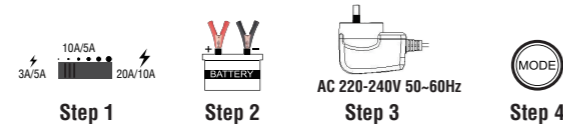
Product Overview



- 1 Charge current switch. 3 levels: 5A(12V)/3A(24V), 10A(12V)/5A(24V), 20A(12V)/10A(24V).
2 For charging 12V or 24V batteries or Lithium batteries with Battery Management Systems (BMS).
3 For ordinary lead-acid batteries/maintenance-free batteries, including: AGM, GEL, SLA, WET, DEEP CYCLE, EFB, Calcium, etc.
4 For charging 12V or 24V LiFePO4 batteries.
5 Lead-acid batteries only, for repair of old or heavily discharged batteries. Note: Can not repair severely damaged batteries.
6 Used to select the charging mode

Auto-Memory: The charger has a memory function and will automatically select the last mode.

Charging Your Battery



- 1. Adjust and select the appropriate charging current for your battery.
2. Connect the red positive clamp to battery positive, then the black negative clamp to battery negative.
3. Connect the charger to the mains power.

4. Select the corresponding mode according to the battery type. (The charger automatically recognises the battery voltage and selects 12V or 24V.)

- Note:
1) Do not charge a lithium battery without a battery management system (BMS) protection board incorporated in the lithium battery.
2) Charge batteries with a capacity of less than 20AH at the minimum charging current setting.

Multi-View Display Description

Multi-view display alternates between current battery voltage, charge current, charge quantity, BC200 inside temperature, repair process status, and fully charged status.

Symbols:
FULL battery fully charged
END repair process complete. To continue with trickle charge, press mode button to select correct battery type.
OFF Standby mode, clamps are not connected.
Fit. The battery is defective, or unable to be charged. Check the battery at your local battery supplier.
Winter temperature symbol <10 °C. (ref. only)
Summer temperature symbol > 28 °C. (ref. only)

Grid of display symbols including: 100% battery level, 200A charge current, 100A battery capacity, 120V battery voltage, OFF standby, End repair process, LOW low voltage, FULL battery fully charged, Win. winter mode, Sum. summer mode, 22.0°C charge inside temperature, 30AH charge quantity.



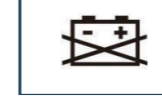
Repair Mode. An advanced battery recovery mode for repairing and storing old, idle, damaged, stratified and sulfated batteries. The maximum repair time is 24 hours. Only for lead-acid batteries. Can not repair badly damaged batteries.



Wrong polarity Check polarity of the battery clamps.

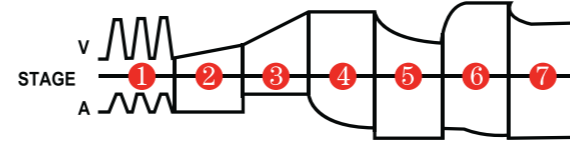


The battery is defective, or unable to be charged. Check the battery at your local battery supplier.



Bad connection Check the connection between the charger and the battery.

7-Stage Charging Process



- Stage 1: Battery desulphation -> this stage only for car mode
Stage 2: Soft start charging
Stage 3: Bulk charging
Stage 4: Absorption charging
Stage 5: Battery test
Stage 6: Recondition charging
Stage 7: Float & maintenance charging

Estimated Charging Time

Table with columns: Battery Capacity (Ah), Charging Time(H) for 12V 5A, 12V 10A, 12V 20A, 24V 3A, 24V 5A, 24V 10A. Rows include capacities from 50Ah to 1000Ah.

Note: The estimated charging time is for reference only.

Features

- 1. Supports Lithium, Lead-acid (AGM, GEL, SLA, Flooded, WET, EFB, etc.) and LiFePO4 batteries.
2. Full automatic microprocessor control. 7-stage charging program provides the most efficient battery charging.
3. Charging voltage automatically adapts to temperature to prevent over- or under-charging.
4. Repair function to repair old, weak and idle batteries. For Lead-acid batteries only.
5. Overcharge protection, reverse polarity protection, and short circuit protection.
6. LCD screen showing voltage, current, battery power, temperature etc.
7. Selectable charge current.
8. Auto-memory function will return to the last mode when connected.

Typical Battery Voltages

Table with columns: Battery Type, Voltage. Rows include 12V LITHIUM, 24V LITHIUM, 12V Lead-acid, 24V Lead-acid, 12V LiFePO4, 24V LiFePO4.

Specifications

Model: BC200
AC Input Voltage: 220-240V-50/60Hz
Applicable battery type: Lithium, LiFePO4, Lead-acid (AGM, GEL, EFB, MF, FLOODED, VRLA, SLA, WET, etc.)
Applicable battery voltage: 12V, 24V
Charging Current: Max 20A(12V), Max 10A(24V)
Minimum Start Volt: 2V
Input Power with Load: Max 280W
Net weight: 470g
Dimensions: 158*90*50mm
Recommended operating temperature: -25 to +60 °C



Made in PRC

Warnings and Safety Precautions

- 1. Do not charge a lithium battery without a battery management system (BMS) protection board incorporated in the lithium battery.
2. Batteries below 20AH should be charged with the minimum current setting.
3. The charger is designed for 12V and 24V Lithium, Lead-acid and LiFePO4 batteries.
4. Check battery specifications before use.
5. Only use in well ventilated conditions to prevent flames and sparks.
6. Do not expose charger to the sun, or in a high temperature environment.
7. Battery acid is corrosive. Rinse immediately with water if acid comes into contact with skin or eyes.
8. Do not charge a frozen or damaged battery.
9. Do not charge non-rechargeable batteries.
10. Do not place the charger on the battery while charging.
11. Be extra cautious to reduce risk of dropping a metal tool on the battery. It might spark or short-circuit the battery that may cause explosion.
12. When working with a lead-acid battery, remove personal metal items.
13. In order to reduce risk of electric shock, unplug charger from AC outlet before doing any maintenance or cleaning.
14. Keep away from children, this is not a toy.

Express Warranty (Australia)

This Express Warranty is provided by Oricom International Pty Ltd ABN 46 086 116 369, Unit 1, 4 Sovereign Place, South Windsor NSW 2756, herein after referred to as "Oricom".

Oricom warrants that the product is free from defects in materials or workmanship during the Express Warranty Period. This Express Warranty does not extend to any product from which the serial number has been removed or was purchased outside of Australia.

The benefits of this Express Warranty are in addition to other rights and remedies you may have under the Australian Consumer Law. 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 compensation for any other reasonably foreseeable loss or damage.

The Express Warranty Period will be a period of 3 Years beginning on the date of purchase of the product evidenced by your dated sales receipt. You are required to provide proof of purchase as a condition of receiving Express Warranty services.

You are entitled to a replacement product or repair of the product at our discretion according to the terms and conditions of this document if your product is found to be faulty within the Express Warranty Period. This Express Warranty extends to the original purchaser only and is not transferable.

Products distributed by Oricom are manufactured using new materials or new and used materials equivalent to new in performance and reliability. Spare parts may be new or equivalent to new. Spare parts are warranted to be free from defects in material or workmanship for thirty (30) days or for the remainder of the Express Warranty Period of the Oricom branded product in which they are installed, whichever is longer.

No change to the conditions of this Express Warranty is valid unless it is made in writing and signed by an authorised representative of Oricom.

Oricom will not be liable under this Express Warranty, and to the extent permitted by law will not be liable for any defect, loss, damage or injury arising out of or in connection with a:

- 1. Failure by you to adhere to the warnings and follow the instructions set out in this user guide for the proper installation and use of the product;
2. Wilful misconduct or deliberate misuse by you of the product;
3. Any external cause beyond our control, including but not limited to power failure, lightning or over voltage; or
4. Modification to the product or services carried out on the product by anyone other than Oricom or Oricom's authorised service provider.

How to make a claim under your Express Warranty in Australia

Oricom has a simple warranty process for you to follow:

- Please call or email our Customer Support Team, (02) 4574 8888 or support@oricom.com.au.
- A Customer Support Team member will verify after troubleshooting with you if your product qualifies under warranty. If so, they will give you a Product Return Authorisation number.
- We will then email or fax a Return Authorisation form and a Repair Notice (if necessary), together with instructions on how to return the goods for warranty service.

Please note that if a Customer Support Team member advises that your product does not qualify for return, this warranty does not apply to your product. Products that are authorised to be returned to Oricom in Australia must include all of the following:

- A completed Return Authorisation form
- A copy of your Proof of Purchase (please keep your original copy)
- The faulty product, including all accessories.

Send the approved returns to:

Oricom International Pty Ltd
Locked Bag 658
South Windsor NSW 2756 Australia

Please note that this Express Warranty excludes expenses incurred by you in returning any faulty product to us. You must arrange and pay any expenses incurred (including postage, delivery, freight, transportation or insurance of the product) to return the faulty product to us, however, we will arrange delivery of the repaired or replaced faulty product to you.

Important Information
Repair Notice

Please be aware that the repair of your goods may result in the loss of any user generated data (such as stored telephone numbers, text messages and contact information). Please ensure that you have made a copy of any data saved on your goods before sending for repair. Please also be aware that goods presented for repair may be replaced by refurbished goods or parts of the same type rather than being repaired.

ORICOM CUSTOMER SUPPORT

Oricom have a trained and dedicated team of Customer Support Representatives, each with the knowledge and resources to assist in answering your questions quickly and efficiently.

Oricom Support - Australia

For all product enquiries, troubleshooting or to discuss the range of Oricom products, feel free to contact Oricom or visit our website for answers to frequently asked questions.

(02) 4574 8888

Monday - Friday 8am - 6pm AEST
Email: support@oricom.com.au
www.oricom.com.au

Oricom Support - New Zealand

0800 674 266
Monday - Friday 11am - 7pm NZST
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