

## Ferm BCM1021

# FERM BCM1021 Battery Charger User Manual

Model: BCM1021

## 1. INTRODUCTION

Thank you for choosing the FERM BCM1021 Battery Charger. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new battery charger. Please read this manual thoroughly before first use and keep it for future reference.

The FERM BCM1021 is designed for charging 6V and 12V lead-acid batteries. It features automatic overcharge, short-circuit, and reverse polarity protection, ensuring safe charging. The integrated ampere meter allows for easy monitoring of the charging process.

## 2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent electric shock, fire, or injury:

- Read all instructions before using the charger.
- Use the charger only in a well-ventilated area.
- Do not expose the charger to rain or wet conditions.
- Ensure the charger is disconnected from the mains power before making or breaking connections to the battery.
- Connect the battery clamps to the correct terminals: red to positive (+), black to negative (-). Reverse polarity will blow the fuse.
- Avoid sparks or flames near the battery, as batteries can produce explosive gases.
- Wear eye protection and gloves when working with batteries.
- Keep out of reach of children.
- Do not attempt to charge non-rechargeable batteries.

## 3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package:

- FERM BCM1021 Battery Charger
- Set of Battery Clamps (Red and Black)

## 4. PRODUCT OVERVIEW

A black and white photograph of a FERM BCM1021 battery charger. The device is a rectangular box with a dark front panel featuring horizontal ventilation slots. On the front panel, the brand name 'FERM' is prominently displayed in large, bold letters. Below it, the model name 'BCM1021 BATTERY CHARGER' is printed. To the left of the meter, there is a fuse holder labeled 'FUSE' and a power switch labeled 'ON/OFF'. A small label indicates '12V'. In the center, there is a circular analog meter with a scale from 0 to 10, labeled 'A' for Amperes. The meter shows a reading of approximately 1.5. Below the meter, there is a small warning triangle and the text 'Warning: The fuse is made in China of...'. On the right side of the front panel, there are two large, heavy-duty clamps, one red and one black, connected to thick red and black cables. The top of the device has a label with technical specifications and safety instructions. The overall design is functional and industrial.

The image shows the front panel of a FERM BCM1021 battery charger. The device is dark blue with a series of vertical ventilation slots along the top and bottom edges. On the left side, the brand name "FERM" is printed in large, bold, white letters. Below it, the model number "Art. no. BCM1021 BATTERY CHARGER" is printed. To the left of the model number are three icons: a hand plugging a cord into a wall outlet, a crossed-out incandescent light bulb, and a crossed-out house icon. Below these icons is the CE mark. To the right of the CE mark, the text "FERM B.V. • LINGENSTRAAT 6 • 8020 PH ZWOLLE • NETHERLANDS • WWW.FERM.COM • DESIGNED IN THE NETHERLANDS • MADE IN PRC 1604-29" is printed. In the center, there is a fuse holder labeled "FUSE" containing a red fuse, and a voltage selector switch labeled "6V" and "12V". To the right of the fuse holder, the text "Serial no. 1600430/2016-117" is printed. Below the serial number is a warning triangle icon with the text "Warning: The fuse breaks in case of reverse polarity and shorts circuit." On the right side, there is a large, semi-circular ammeter with a scale from 0 to 10, labeled "A". The needle is pointing to 0. Below the ammeter, the text "85C17" and "GB/T7676-98" are printed. To the right of the ammeter, there is a small icon of a battery and the text "Q25 | ☆ | 100%".

Figure 4.2: Top panel of the charger showing the fuse holder, 6V/12V selector switch, and the ampere meter. The model number and

manufacturer details are also visible.



Figure 4.3: Detailed view of the 10A fuse and the white rocker switch for selecting between 6V and 12V charging modes. A warning about fuse breaking due to reverse polarity or short circuit is printed nearby.





Figure 4.4: Close-up of the analog ampere meter, which displays the current flowing into the battery during charging. The scale ranges from 0 to 10 Amperes.



Figure 4.5: The included red (positive) and black (negative) battery clamps, designed for secure connection to battery terminals.

## 5. SETUP

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1. **Preparation:** Ensure the battery is in a well-ventilated area. Clean the battery terminals if necessary to ensure good contact.
2. **Voltage Selection:** Before connecting to the battery, use the 6V/12V switch on the charger to select the correct voltage (6V or 12V) matching your battery.
3. **Connect to Battery:**
  - Connect the **red** positive (+) battery clamp to the positive (+) terminal of the battery.
  - Connect the **black** negative (-) battery clamp to the negative (-) terminal of the battery.
  - Ensure connections are secure.
4. **Connect to Mains Power:** Plug the charger's power cord into a standard 230V AC electrical outlet.

## 6. OPERATING INSTRUCTIONS

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1. **Initiate Charging:** Once connected to both the battery and mains power, the charging process will begin automatically.
2. **Monitor Charging:** Observe the ampere meter on the charger. The needle will indicate the charging current. As the battery charges, the current will gradually decrease.
3. **Charging Completion:** Charging is complete when the ampere meter shows a very low current or drops to zero, indicating the battery is fully charged. The charger's automatic overcharge protection will prevent damage to the battery.
4. **Disconnecting:**
  - First, unplug the charger from the mains power outlet.
  - Then, disconnect the black negative (-) battery clamp from the battery.
  - Finally, disconnect the red positive (+) battery clamp from the battery.

### Safety Features:

- **Overcharge Protection:** The charger automatically stops charging when the battery is full to prevent overcharging.
- **Short-Circuit Protection:** Protects the charger and battery in case of a short circuit.
- **Reverse Polarity Protection:** If the battery clamps are connected incorrectly, the internal fuse will blow to protect the unit.

## 7. MAINTENANCE

- **Cleaning:** Clean the charger's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure ventilation slots are free from dust and debris.
- **Storage:** Store the charger in a dry, cool place, away from direct sunlight and moisture, when not in use.
- **Fuse Replacement:** If the charger stops working due to reverse polarity or a short circuit, the internal 10A fuse may have blown. To replace, disconnect the charger from all power sources, open the fuse compartment (refer to Figure 4.3 for location), and replace with a fuse of the same type and rating (10A).

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on / No current shown on ampere meter.	<ul style="list-style-type: none"><li>• No mains power.</li><li>• Incorrect battery connection.</li><li>• Blown fuse.</li></ul>	<ul style="list-style-type: none"><li>• Check mains power outlet.</li><li>• Ensure clamps are connected correctly (red to +, black to -).</li><li>• Check and replace the 10A fuse if blown (see Maintenance section).</li></ul>
Ampere meter shows very low or no current after initial connection.	Battery is already fully charged.	No action required. The charger's overcharge protection is active.
Charger gets warm during operation.	Normal operation.	Ensure adequate ventilation around the charger. This is normal during charging.

## 9. SPECIFICATIONS

Model Number	BCM1021
Brand	FERM
Input Voltage	230 Volt AC
Output Voltage	6V / 12V DC
Power Consumption	12 Watt
Dimensions (L x W x H)	26 x 17 x 10 cm
Weight	3.67 Kilograms
Color	Blue / Black
Included Accessories	Set of Battery Clamps







## 10. WARRANTY AND SUPPORT

FERM products are manufactured to high quality standards. In the unlikely event of a defect, please contact your retailer or the FERM customer service for assistance. Keep your proof of purchase for warranty claims.

For further support, technical questions, or to find service centers, please visit the official FERM website or contact their customer support line. Contact details can typically be found on the product packaging or the official brand website.

*Note: Specific warranty terms and conditions may vary by region. Please refer to the warranty card included with your product or the manufacturer's website for detailed information.*

## Related Documents - BCM1021

	<p><a href="#">FERM PRM1020P Trimmer: User Manual, Safety &amp; Operation Guide</a></p> <p>Comprehensive user manual for the FERM PRM1020P trimmer. Learn about safe operation, assembly, maintenance, and troubleshooting for this powerful woodworking tool from FERM Industrial.</p>
	<p><a href="#">Ferm FFZ-400N Scroll Saw User Manual: Operation, Safety, and Assembly</a></p> <p>User manual for the Ferm FFZ-400N Scroll Saw, detailing technical specifications, safety guidelines, assembly instructions, operation procedures, maintenance, troubleshooting, and spare parts. Includes CE conformity information.</p>
	<p><a href="#">FERM RSM1022 20V Cordless Reciprocating Saw User Manual</a></p> <p>This user manual provides detailed safety instructions, operating procedures, and maintenance guidelines for the FERM RSM1022 20V Cordless Reciprocating Saw. Learn about the product's features, technical specifications, and assembly.</p>
	<p><a href="#">Ferm BSM1024 Belt Sander User Manual</a></p> <p>Comprehensive user manual for the Ferm BSM1024 belt sander, covering safety instructions, assembly, operation, cleaning, maintenance, and environmental disposal. Includes technical specifications and troubleshooting tips.</p>
	<p><a href="#">FERM SGM1012 Electrical Spray Gun User Manual</a></p> <p>Comprehensive user manual for the FERM SGM1012 Electrical Spray Gun, covering technical specifications, safety instructions, operating procedures, and maintenance. Learn how to use and care for your spray gun for optimal performance.</p>
	<p><a href="#">FERM HDM1037 Rotary Hammer Drill User Manual</a></p> <p>This user manual provides instructions and safety information for the FERM HDM1037 Rotary Hammer Drill. It covers intended use, technical specifications, assembly, operation, cleaning, maintenance, and warranty.</p>



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