

## Telwin 807607

# Telwin Defender 12 (Model 807607) Electronic Battery Charger and Maintainer User Manual

For 6V/12V WET, GEL, AGM, MF, PbCa, EFB Batteries

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your Telwin Defender 12 electronic battery charger and maintainer. The Defender 12 is designed for charging and maintaining 6V and 12V batteries, including WET, GEL, AGM, MF, PbCa, and EFB types. It features specific charging programs for motorcycles and cars, an advanced low-temperature charging function, and an intuitive LCD screen.

## 2. SAFETY INFORMATION

Read all safety warnings and instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Ventilation:** Ensure adequate ventilation when charging batteries. Batteries can produce explosive gases.
- **Eye Protection:** Always wear eye protection and protective clothing when working with batteries.
- **No Smoking/Sparks:** Do not smoke or allow sparks or flames in the vicinity of the battery or charger.
- **Disconnect Power:** Always disconnect the charger from the AC power outlet before making or breaking connections to the battery.
- **Correct Voltage:** Ensure the charger is set to the correct voltage (6V or 12V) for the battery being charged.
- **Polarity:** Connect the positive (+) clamp to the positive (+) battery terminal and the negative (-) clamp to the negative (-) battery terminal. The Defender 12 includes protections against reverse polarity.
- **Overload Protection:** The unit is equipped with protection against overloads and short circuits.
- **Water Resistance:** The charger is resistant to dust, humidity, and water, but avoid submerging it or exposing it to heavy rain.

## 3. PRODUCT FEATURES

The Telwin Defender 12 offers advanced features for efficient and safe battery charging and maintenance:

- Electronic battery charger and maintainer with LCD screen.

- Compatible with 6V/12V WET, GEL, AGM, MF, PbCa, EFB batteries.
- Specific charging programs for motorcycles and cars.
- Automatic charge and maintenance function (Tronic).
- Three selectable charging voltages.
- COLD function for optimized charging and maintenance at low temperatures.
- Resistant to dust, humidity, and water for enhanced durability.
- Integrated protections against overloads, short circuits, and reverse polarity.
- Supplied with a cable and battery clamps.



Figure 1: Front view of the Telwin Defender 12 charger.

## 4. SETUP

Follow these steps to set up your Telwin Defender 12 charger:

1. **Unpack:** Carefully remove the charger and all accessories from the packaging. Inspect for any damage.
2. **Position:** Place the charger on a stable, dry surface, ensuring good ventilation. Keep it away from flammable materials.
3. **Connect to Battery:**
  - Connect the **RED** positive (+) clamp to the positive (+) terminal of the battery.
  - Connect the **BLACK** negative (-) clamp to the negative (-) terminal of the battery.
  - Ensure connections are secure and free from corrosion.
4. **Connect to Power:** Plug the charger's AC power cord into a suitable 230V AC (or local equivalent) wall outlet. The charger will power on and the LCD screen will illuminate.



Figure 2: Telwin Defender 12 with battery clamps.

## 5. OPERATING INSTRUCTIONS

Once connected, the Defender 12 will automatically detect the battery voltage (6V or 12V) and begin the charging process. You can select specific modes using the 'MODE' button.

- 1. Automatic Detection:** Upon connecting to the battery and power, the charger will automatically detect if it's a 6V or 12V battery and display the current voltage on the LCD screen.
- 2. Mode Selection:** Press the **MODE** button to cycle through the available charging programs:
  - **Motorcycle Mode:** For smaller capacity batteries (e.g., motorcycle, scooter).
  - **Car Mode:** For standard car batteries.
  - **COLD Function:** Activate this mode for optimized charging and maintenance in low-temperature environments (below 5°C / 41°F). This function adjusts charging parameters to compensate for cold conditions.
- 3. LCD Display:** The LCD screen provides real-time information:
  - **Voltage:** Displays the current battery voltage.
  - **Battery Icon:** Indicates the charging status (e.g., empty, partially charged, full).
  - **Mode Icon:** Shows the currently selected mode (e.g., motorcycle, car, snowflake for COLD).
- 4. Charging Process:** The charger will automatically proceed through its multi-stage charging cycle, including bulk charge, absorption, and float/maintenance. Once the battery is fully charged, the unit will switch to maintenance mode to keep the battery at optimal charge without overcharging.
- 5. Disconnection:** To disconnect, first unplug the charger from the AC power outlet, then remove the negative (-) clamp from the battery, followed by the positive (+) clamp.



Figure 3: Close-up of the LCD display and MODE button.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your Telwin Defender 12 charger.

- **Cleaning:** Disconnect the charger from all power sources before cleaning. Wipe the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Cable and Clamp Inspection:** Regularly inspect the charging cables and clamps for any signs of damage, fraying, or corrosion. Replace damaged components immediately.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep it away from direct sunlight, extreme temperatures, and moisture.

## 7. TROUBLESHOOTING

If you encounter issues with your Telwin Defender 12, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger does not power on / LCD is blank.	No AC power; Faulty power outlet; Damaged power cord.	Check AC power connection. Test the outlet with another device. Inspect power cord for damage.
Charger connected but not charging.	Incorrect battery connection; Battery is severely discharged or damaged; Incorrect mode selected.	Ensure correct polarity (+ to +, - to -). Check battery voltage; if extremely low, it may not be recoverable. Select appropriate charging mode.
Error message on LCD.	Reverse polarity; Short circuit; Battery fault.	Disconnect and re-connect clamps with correct polarity. Check for short circuits in cables or battery. If error persists, the battery may be faulty.
Charger gets warm during operation.	Normal operation; Poor ventilation.	Some warmth is normal during charging. Ensure adequate ventilation around the charger. If it becomes excessively hot, disconnect immediately.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact Telwin customer support.

## 8. SPECIFICATIONS

Specification	Detail
<b>Brand</b>	Telwin
<b>Model Number</b>	807607
<b>Battery Types</b>	WET, GEL, AGM, MF, PbCa, EFB
<b>Battery Voltage</b>	6V / 12V
<b>Charging Programs</b>	Motorcycle, Car, COLD Function
<b>Display</b>	LCD Screen
<b>Protection Features</b>	Overload, Short Circuit, Reverse Polarity
<b>Environmental Resistance</b>	Dust, Humidity, Water Resistant
<b>Included Accessories</b>	Cable with clamps
<b>Manufacturer</b>	Telwin
<b>Country of Origin</b>	China

## 9. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the documentation included with your purchase or visit the official Telwin website. For technical support, spare parts, or service inquiries, please contact your authorized Telwin dealer or Telwin customer service directly.

**Contact Information:** Refer to the Telwin official website or your purchase receipt for the most up-to-date contact details.

