

Telwin 807608

Telwin Defender 20 Electronic Battery Charger and Maintainer User Manual

INTRODUCTION

This manual provides essential instructions for the safe and effective operation of your Telwin Defender 20 electronic battery charger and maintainer. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

SAFETY INFORMATION

Always observe the following safety precautions when operating the Telwin Defender 20:

- Ensure the charger is disconnected from the mains power supply before making or breaking connections to the battery.
- Operate the charger in a well-ventilated area.
- Avoid charging frozen batteries.
- Do not expose the charger to rain or excessive moisture, despite its water resistance.
- Wear appropriate personal protective equipment, including eye protection and gloves, when working with batteries.
- Keep out of reach of children.
- The charger is designed for 12V/24V lead-acid batteries (WET, GEL, AGM, MF, PbCa, EFB). Do not use it for other battery types.
- Protect against short circuits and reverse polarity. The device includes built-in protections.

PRODUCT OVERVIEW

The Telwin Defender 20 is an advanced electronic battery charger and maintainer designed for a wide range of 12V and 24V lead-acid batteries. It features an intuitive LCD display and specific programs for various battery types and conditions.





Image 1: Telwin Defender 20 Electronic Battery Charger and Maintainer with included battery clamps.

Key Features:

- **Automatic Tronic Charging and Maintenance:** Ensures optimal battery health without overcharging.
- **Versatile Battery Compatibility:** Suitable for WET, GEL, AGM, MF, PbCa, and EFB batteries.
- **Dual Voltage Support:** Charges both 12V and 24V batteries.
- **Specific Charging Programs:** Dedicated modes for motorcycles and cars.
- **COLD Function:** Optimized charging and maintenance for batteries in low-temperature environments.
- **LCD Display:** Provides clear real-time charging status and information.
- **Weatherproof Design:** Resistant to dust, humidity, and water for enhanced durability.
- **Integrated Protections:** Safeguards against overload, short circuit, and reverse polarity.

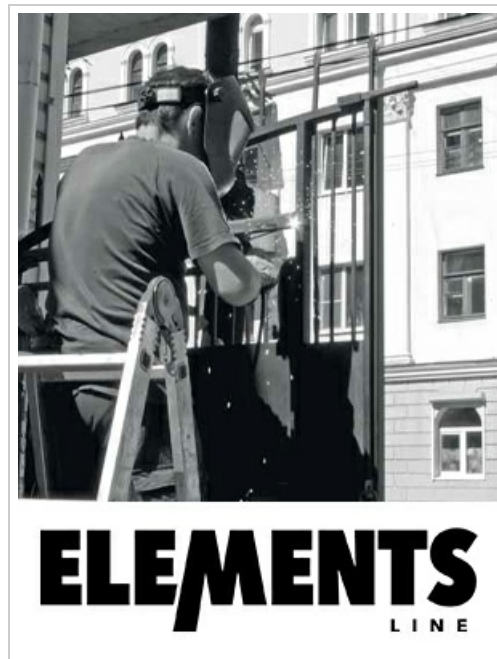


Image 2: Close-up view of the Telwin Defender 20's LCD display, showing voltage and battery status indicators.

SETUP

1. **Unpacking:** Carefully remove the charger and all accessories from the packaging. Inspect for any signs of damage.
2. **Connection 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. If the battery is installed in a vehicle, connect the negative clamp to the vehicle chassis away from the battery and fuel line.
 - Ensure connections are secure.
3. **Connection to Mains Power:** Plug the charger's power cord into a suitable electrical outlet (230V AC, 50/60Hz). The LCD display will illuminate.

OPERATING INSTRUCTIONS

The Telwin Defender 20 offers automatic charging and maintenance. Follow these steps to begin operation:

1. **Power On:** After connecting to the battery and mains power, the charger will automatically power on and display the current battery voltage.
2. **Select Charging Mode:** Press the "MODE" button (typically a circular button below the LCD display) to cycle

through the available charging programs. The display will indicate the selected mode (e.g., motorcycle, car, COLD).

- **Motorcycle Mode:** For smaller 12V batteries, typically found in motorcycles.
- **Car Mode:** For standard 12V or 24V car batteries.
- **COLD Function:** Activate this mode when charging batteries in ambient temperatures below 5°C (41°F) for optimized performance.

3. **Automatic Charging:** Once a mode is selected, the charger will automatically detect the battery type and voltage (12V or 24V) and begin the charging process. The LCD display will show charging progress and status.
4. **Maintenance Mode:** Upon completion of the charging cycle, the device automatically switches to maintenance mode, keeping the battery at optimal charge without overcharging.
5. **Disconnection:** To disconnect, first unplug the charger from the mains power outlet, then remove the negative (-) clamp, followed by the positive (+) clamp.

MAINTENANCE

To ensure the longevity and optimal performance of your Telwin Defender 20, follow these maintenance guidelines:

- **Cleaning:** Disconnect the charger from all power sources before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly coiled and not kinked.
- **Cable Inspection:** Periodically inspect the power cord and battery clamps for any signs of damage, wear, or corrosion. Replace damaged components immediately.
- **Ventilation:** Ensure the charger's ventilation openings are clear of dust and debris to prevent overheating.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger does not power on.	No mains power; faulty outlet; damaged power cord.	Check mains power supply and outlet. Inspect power cord for damage.
Charging does not start.	Incorrect battery connection; battery deeply discharged; incorrect mode selected.	Verify positive and negative connections. Ensure battery voltage is within charger's range. Select appropriate charging mode.
Error message on LCD.	Reverse polarity; short circuit; internal fault.	Check battery clamp connections for reverse polarity. Disconnect and reconnect. If error persists, contact support.
Charger gets hot.	Normal operation during charging; poor ventilation.	Some heat is normal. Ensure adequate ventilation around the charger. If excessively hot, disconnect and allow to cool.

SPECIFICATIONS

Feature	Detail
Brand	Telwin

Feature	Detail
Model Number	807608
Input Voltage	12 Volts (AC input not specified, assuming standard mains for charger)
Output Voltage	12V / 24V
Compatible Battery Types	WET, GEL, AGM, MF, PbCa, EFB
Special Functions	COLD function for low temperatures, Automatic Tronic charge/maintenance
Display	LCD
Protection Features	Overload, Short Circuit, Reverse Polarity
Environmental Resistance	Dust, Humidity, Water resistant
Product Dimensions	5.8P x 11l x 20.1H centimeters (Depth x Width x Height)

WARRANTY AND SUPPORT

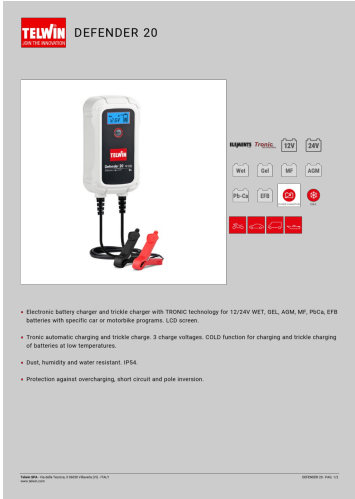
For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Telwin website. Keep your proof of purchase for warranty claims.

Related Documents - 807608

	Telwin Doctor Charge 131 Battery Charger - Technical Specifications and Features Detailed information on the Telwin Doctor Charge 131, a multifunctional electronic battery charger and manager for various battery types (WET, GEL, AGM, MF, PbCa, EFB, Li 12V/24V) with Pulse Tronic technology, diagnostic functions, and advanced features like BOOST and COLD charging.
	Telwin Doctor Charge 130: Professional Battery Charger & Manager Discover the Telwin Doctor Charge 130, a multi-functional electronic battery charger and manager for 12V/24V batteries. Features Pulse Tronic technology, BOOST, COLD, RECOVERY, TEST functions, and PFC. Ideal for workshops and showrooms.
	Telwin Doctor Charge 130: Professional Battery Charger & Manager Discover the Telwin Doctor Charge 130, a versatile electronic battery charger and manager for 12V/24V WET, GEL, AGM, MF, PbCa, EFB, and Li batteries. Features Pulse Tronic, RECOVERY, BOOST, and testing functions.

	Telwin Doctor Charge 130 Battery Charger - Technical Specifications and Features Comprehensive overview of the Telwin Doctor Charge 130, a multifunctional electronic battery charger and manager. Details features, technical specifications, compatible battery types, and accessories for professional use.
	Telwin Alaska 210 Start Battery Charger and Starter Detailed specifications and features of the Telwin Alaska 210 Start, a 12/24V electronic battery charger and trickle charger with TRONIC technology for various lead-acid batteries.
	Telwin Leader 400 Start Battery Charger and Starter Information on the Telwin Leader 400 Start, a 12/24V battery charger and starter suitable for petrol and diesel engines up to 70 hp. Features include normal charge, boost charge, rapid cranking, and protection against overcharging and pole inversion.

Documents - Telwin – 807608



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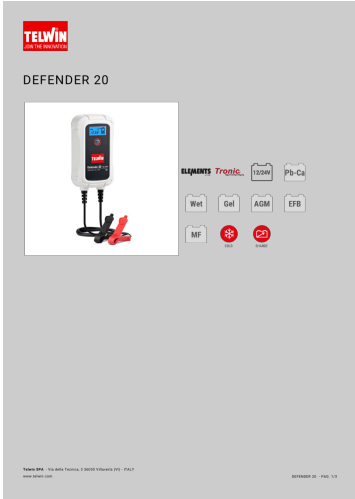


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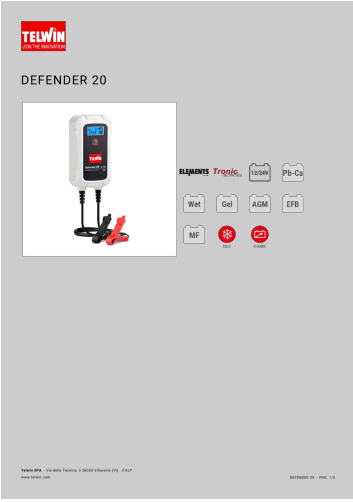


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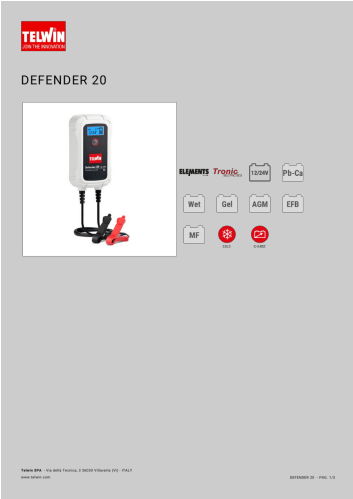
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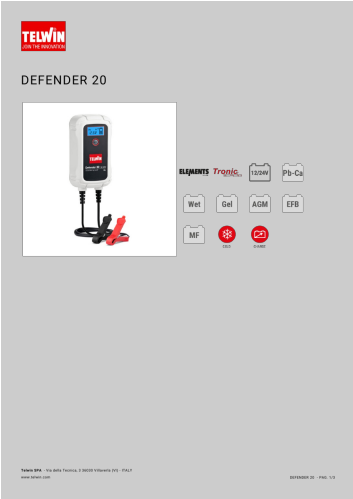
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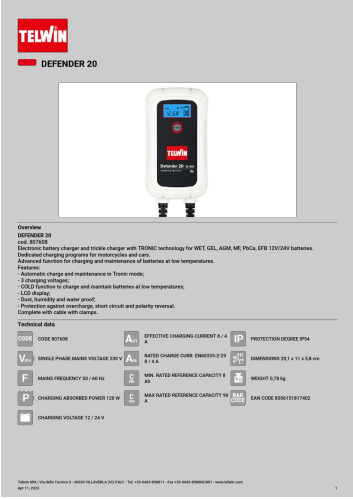


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Place and date of issue / Luogo e data di rilascio: Villaverla: 11.12.2023 Declaration/

Dichiarazione n N98118 The undersigned manufacturer / Il sottoscritto produttore:

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/ D I C H I A R A under his sole responsib...

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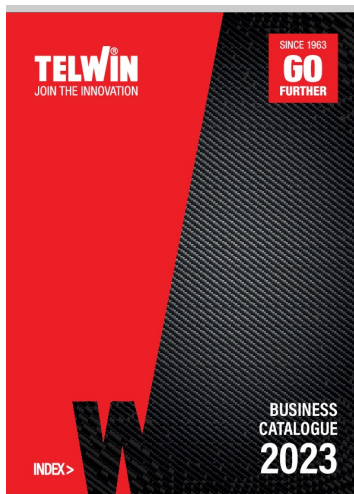


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