

## Mastervolt ChargeMaster Plus 12/35-3

# Mastervolt ChargeMaster Plus 12/35-3 Battery Charger User Manual

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Mastervolt ChargeMaster Plus 12/35-3 Battery Charger. Please read these instructions carefully before installation and use to ensure optimal performance and longevity of the product. The ChargeMaster Plus is designed to charge various battery chemistries quickly and safely, accommodating different battery sizes and global mains voltages.

## 2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent personal injury or damage to the equipment:

- Ensure proper ventilation around the charger to prevent overheating.
- Do not expose the charger to water, rain, or excessive moisture.
- Connect the charger only to batteries with the correct voltage and type as specified.
- Avoid short-circuiting the battery terminals.
- Do not attempt to open or repair the charger yourself. Refer all servicing to qualified personnel.
- Keep flammable materials away from the charger during operation.
- Always disconnect the AC power supply before making or breaking battery connections.

## 3. PRODUCT OVERVIEW

The Mastervolt ChargeMaster Plus 12/35-3 is a robust and versatile automatic battery charger. It features a compact design and integrates multiple functions to simplify your power system. The unit is capable of charging two or three batteries simultaneously using its advanced 3-step+ charging method, which is suitable for various battery chemistries, including Lithium Ion.



**Figure 1:** The Mastervolt ChargeMaster Plus 12/35-3 battery charger. This teal-colored unit features indicator lights for mode, battery status (1, 2, 3), and power. The model name 'CHARGEMASTER PLUS automatic battery charger 12/35-3' and 'MASTERVOLT' brand are clearly visible on the front panel.

Key features include:

- **Multi-Chemistry Charging:** Supports various battery types with optimized charging profiles.
- **3-Step+ Charging Method:** Ensures fast and safe charging, extending battery life.
- **Pre-Float Functionality:** Prevents overcharging of smaller batteries when combined with larger ones.
- **Worldwide Compatibility:** Handles all possible mains voltages and frequencies.
- **Integrated Functions:** Reduces system complexity and cost by combining multiple features in one device.

## 4. SETUP

Follow these steps for initial setup:

1. **Mounting:** Select a dry, well-ventilated location for mounting the charger. Ensure adequate space for air circulation around the unit.
2. **Battery Connection:** Connect the charger's output cables to your batteries. Ensure correct polarity (positive to positive, negative to negative) for each battery bank. The ChargeMaster Plus 12/35-3 supports charging up to three battery banks.
3. **AC Power Connection:** Connect the charger to a suitable AC power source. The unit is designed to

operate with various worldwide mains voltages and frequencies.

4. **Initial Power-Up:** Once all connections are secure, switch on the AC power supply to the charger. The power indicator light should illuminate.

## 5. OPERATING INSTRUCTIONS

The ChargeMaster Plus operates largely automatically. Observe the indicator lights on the front panel for status information:

- **MODE Indicator:** Shows the current charging phase (e.g., bulk, absorption, float).
- **Battery 1, 2, 3 Indicators:** Display the charging status for each connected battery bank.
- **Power Indicator:** Illuminates when the charger is receiving AC power and is operational.

The charger automatically detects the battery type and applies the appropriate 3-step+ charging profile. For Lithium Ion batteries, a specific charging profile is included. The pre-float functionality ensures that smaller batteries connected to the system are not overcharged.

## 6. MAINTENANCE

Regular maintenance ensures the optimal performance and longevity of your ChargeMaster Plus:

- **Cleaning:** Periodically clean the exterior of the charger with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Connections:** Annually inspect all electrical connections for tightness and corrosion. Loose connections can lead to poor performance or overheating.
- **Ventilation:** Ensure that the ventilation openings are clear of dust and debris to maintain proper airflow.

## 7. TROUBLESHOOTING

If you encounter issues with your ChargeMaster Plus, consider the following common troubleshooting steps:

- **No Power Indicator:** Check the AC power supply connection and the circuit breaker.
- **No Charging:** Verify that the battery connections are secure and correctly polarized. Ensure the battery voltage is within the charger's operating range.
- **Overheating:** Check for obstructions around the ventilation openings. Ensure the charger is mounted in a well-ventilated area.
- **Unusual Noises/Smells:** Immediately disconnect power and contact Mastervolt support or a qualified technician.

For more complex issues, refer to the detailed troubleshooting guide available on the Mastervolt website or contact customer support.

## 8. SPECIFICATIONS

Specification	Value
Brand	Mastervolt
Model	ChargeMaster Plus 12/35-3




Specification	Value
Product Dimensions (D x W x H)	4.13" x 8.27" x 11.46"
Output Voltage	12 Volts (DC)
Current Rating	35 Amps
Specification Met	CULus
Manufacturer	Mastervolt

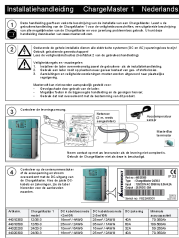
## 9. WARRANTY AND SUPPORT

Warranty information for the Mastervolt ChargeMaster Plus 12/35-3 Battery Charger is typically provided with the product packaging or can be found on the official Mastervolt website. For technical support, service, or warranty claims, please contact Mastervolt customer service or your authorized dealer. Ensure you have your product model and serial number available when seeking support.

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### Related Documents - ChargeMaster Plus 12/35-3

<div>ChargeMaster 12/50-3</div> <div></div> <div>Mastervolt</div>	<p><a href="#">Mastervolt ChargeMaster 12/50-3 Battery Charger - Technical Overview</a></p> <p>Comprehensive details on the Mastervolt ChargeMaster 12/50-3 automatic battery charger, highlighting its 3-step+ charging technology, robust design, multi-bank charging capabilities, and technical specifications for recreational and semi-professional use.</p>
<div>ChargeMaster 24/100-3</div> <div></div> <div>Mastervolt</div>	<p><a href="#">Mastervolt ChargeMaster 24/100-3: Advanced Automatic Battery Charger</a></p> <p>Comprehensive details on the Mastervolt ChargeMaster 24/100-3 automatic battery charger, highlighting its 3-step+ charging technology, universal voltage input, MasterBus compatibility, and robust specifications for marine and recreational applications.</p>
<div><div>Mastervolt</div><div>THE POWER TO BE INDEPENDENT</div><div>CHARGE MASTER PLUS</div><div>12/75-3, 12/100-3, 24/40-3, 24/60-3</div><div>CARICABATTERIE ALL-IN-ONE</div><div></div><div>MANUALE D'USO E INSTALLAZIONE</div><div>CZONE CE</div></div>	<p><a href="#">Mastervolt ChargeMaster Plus: Manuale d'Uso e Installazione</a></p> <p>Guida completa all'installazione, configurazione e funzionamento del caricabatterie Mastervolt ChargeMaster Plus. Include istruzioni di sicurezza, specifiche tecniche e risoluzione dei problemi per i modelli 12/75-3, 12/100-3, 24/40-3, 24/60-3.</p>



### [Mastervolt ChargeMaster 1 Installatiehandleiding](#)

Gedetailleerde installatiehandleiding voor de Mastervolt ChargeMaster 1 acculader, inclusief montage-instructies, elektrische aansluitingen, dip-schakelaar instellingen en technische specificaties.



### [Manuel d'utilisation Mastervolt ChargeMaster 12/35-3, 12/50-3, 24/20-3, 24/30-3](#)

Manuel d'utilisation complet pour les chargeurs de batterie Mastervolt ChargeMaster, couvrant l'installation, le fonctionnement, les réglages, le dépannage et les spécifications techniques des modèles 12/35-3, 12/50-3, 24/20-3 et 24/30-3.



### [Mastervolt ChargeMaster Plus Gebruikers- en Installatiehandleiding](#)

Gedetailleerde gebruikers- en installatiehandleiding voor de Mastervolt ChargeMaster Plus serie acculaders, inclusief installatie-instructies, bediening, instellingen en technische specificaties voor modellen zoals 12/75-3, 12/100-3, 24/40-3, en 24/60-3.