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## Battery Tender 022-0202-DL-CA

# Battery Tender 3 AMP Battery Charger and Maintainer

Model: 022-0202-DL-CA | Brand: Battery Tender

## 1. INTRODUCTION

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The Battery Tender 3 AMP Battery Charger and Maintainer is an advanced, fully automatic charging system designed to efficiently charge and maintain 6-volt and 12-volt lead-acid (flooded, AGM, Gel) and 12-volt Lithium (LiFePO4) batteries. This smart charger provides a full charge to your vehicle's battery and then automatically switches to a float mode to prevent overcharging, ensuring optimal battery health and extended lifespan. It is suitable for use with cars, SUVs, trucks, motorcycles, ATVs, lawn mowers, and personal watercraft.



Image: The Battery Tender 3 AMP Battery Charger and Maintainer unit, showing its compact design and indicator lights.

## 2. SAFETY INFORMATION

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Read all instructions carefully before using the charger. Failure to follow safety guidelines may result in electric shock, fire, or serious injury.

- **Eye Protection:** Always wear safety glasses when working with batteries.
- **Ventilation:** Ensure adequate ventilation when charging batteries, as they can produce explosive gases.
- **Spark-Proof Design:** The charger is designed to be spark-proof during lead connection. However, avoid creating sparks near the battery.

- **Reverse Polarity Protection:** The unit features automatic reverse polarity detection. Do not force connections if they feel incorrect.
- **Dry Location:** Use the charger in a dry environment. Do not expose it to rain or moisture.
- **Disconnect Power:** Always disconnect the AC power from the charger before connecting or disconnecting the battery leads.
- **Children and Pets:** Keep the charger and battery out of reach of children and pets.



Image: Illustration highlighting the charger's safety features, including reverse polarity protection, quick disconnect harness, and spark-proof design.

### 3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Battery Tender 3 AMP Selectable Voltage (12V or 6V) Battery Charger and Maintainer
- Ring Terminal Cable Connections
- Alligator Clip Cable Connections

### 4. PRODUCT FEATURES

The Battery Tender 3 AMP Charger and Maintainer offers several key features for efficient and safe battery management:

- **Automatic Charging and Maintenance:** Delivers a full charge and then automatically switches to a float/maintenance mode to prevent overcharging.
- **Versatile Compatibility:** Compatible with 6V and 12V lead-acid batteries (flooded, AGM, Gel) and 12V Lithium (LiFePO4) batteries.
- **Selectable Voltage:** Easily switch between 6V and 12V charging modes with a push of a button.
- **Spark-Proof Connection:** Designed to prevent sparks during lead connection for enhanced safety.
- **Reverse Polarity Protection:** Automatically detects incorrect connections and prevents power delivery until corrected.
- **Quick Disconnect Harness:** Allows for easy connection and disconnection of the charger from the battery.

- **Extended Battery Life:** Utilizes a 4-step charging program to optimize battery power and extend its lifespan.



Image: Overview of the Battery Tender 3 AMP charger's key features, including 'Stay Charged', 'Extend Battery Life', 'Simple & Safe', and 'Battery Voltage Selection'.



Image: Visual representation of the charger's compatibility with various vehicle types (car, SUV, truck, boat, motorcycle, ATV, lawn mower, PWC) and battery chemistries (Lead Acid, AGM, Gel, Lithium).

## 5. SETUP

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Follow these steps to set up your Battery Tender charger:

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush.
2. **Select Cable Connections:** Choose between the ring terminal or alligator clip cable connections based on your application.
3. **Connect to Battery:**
  - Connect the **RED** positive (+) charger lead to the **POSITIVE (+)** battery terminal.
  - Connect the **BLACK** negative (-) charger lead to the **NEGATIVE (-)** battery terminal.

*Note: The charger features reverse polarity protection. If connections are incorrect, the charger will not begin charging.*

4. **Select Voltage:** Press the 'SELECT' button on the charger to choose between 6V or 12V mode, matching your battery's voltage.
5. **Select Battery Type:** Press the other 'SELECT' button to choose between Lithium (LiFePO4) or AGM/Flooded/Standard mode, matching your battery's chemistry.
6. **Connect to AC Power:** Plug the charger's AC power cord into a standard 120V AC electrical outlet.



Image: The Battery Tender charger connected to a car battery under the hood of a vehicle, demonstrating a typical setup.

12/6V

# FULLY SELECTABLE

With the push of a button, easily switch between charging 6V or 12V AGM/ Flooded batteries or 12V Lithium-ion (LiFePO4) batteries.

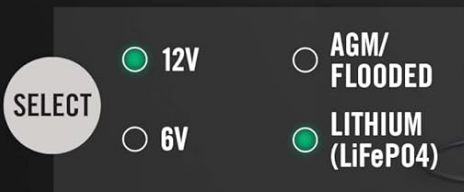


Image: Diagram illustrating the 'Fully Selectable' feature, showing how to switch between 6V and 12V, and between AGM/Flooded and Lithium (LiFePO4) battery types.

## 6. OPERATING INSTRUCTIONS

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Once connected and powered on, the Battery Tender charger will automatically begin its charging process:

1. **Initialization:** The charger first checks the battery connection and its current voltage level.
2. **Bulk Charge:** The charger delivers a constant current to bring the battery's charge up quickly. The 'CHARGING' indicator light will illuminate.
3. **Absorption Mode:** As the battery approaches full charge, the charging current slows down to prevent overcharging.
4. **Float Mode (Maintenance):** Once the battery is fully charged, the charger automatically switches to a safe, low-current float mode. The 'FULLY CHARGED' indicator light will illuminate, and the 'CHARGING' light may turn off or dim. This mode maintains the battery at optimal voltage without overcharging, making it safe for long-term connection.

You can leave the charger connected to the battery indefinitely to maintain its charge.



# EXTEND BATTERY LIFE

Complete 4-step charging program allows for optimization of battery power without overcharging or battery damage.



## 1 INITIALIZATION

Checks battery connection and level.

## 2 BULK CHARGE

Brings the charge up with constant current.

## 3 ABSORPTION MODE

Slows the charging down until full charge.

## 4 FLOAT MODE

Maintains battery charge without overcharging.

Image: Diagram illustrating the 4-step charging program: Initialization, Bulk Charge, Absorption Mode, and Float Mode, designed to extend battery life.

## 7. MAINTENANCE

The Battery Tender charger requires minimal maintenance:

- **Cleaning:** Periodically wipe the charger casing with a dry cloth to remove dust and dirt. Do not use harsh chemicals or abrasive cleaners.
- **Cable Inspection:** Regularly inspect the charging cables and connectors for any signs of damage, fraying, or corrosion. Replace if damaged.
- **Storage:** When not in use, store the charger in a cool, dry place, away from direct sunlight and extreme temperatures.

## 8. TROUBLESHOOTING

If you encounter issues with your Battery Tender charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on / No indicator lights	No AC power; Faulty outlet; Damaged charger.	Check AC power connection; Try a different outlet; Contact customer service if damaged.
'CHARGING' light not illuminating	Incorrect battery connection (reverse polarity); Battery already fully charged; Battery severely discharged or faulty.	Verify correct positive/negative connections; Check 'FULLY CHARGED' light; Test battery condition.
'FULLY CHARGED' light not illuminating	Battery not yet fully charged; Incorrect voltage/battery type selection.	Allow more time for charging; Verify correct 6V/12V and battery type selection.

Problem	Possible Cause	Solution
Charger gets warm during operation	Normal operation during bulk charging.	This is normal. Ensure adequate ventilation around the charger.

## 9. SPECIFICATIONS

Specification	Detail
Model Number	022-0202-DL-CA
Input Voltage	120V AC (Standard Household)
Output Voltage	6 Volts / 12 Volts (Selectable)
Current Rating	3 Amps
Battery Compatibility	Lead Acid (Flooded, AGM, Gel), Lithium (LiFePO4)
Dimensions (L x W x H)	9.8 x 21.1 x 4.75 cm (approx.)
Weight	1.03 Kilograms (approx.)
Manufacturer	Deltran Asia
UPC	734357220216

## 10. WARRANTY AND SUPPORT

The Battery Tender 3 AMP Battery Charger and Maintainer comes with a **5-year warranty**, covering defects in materials and workmanship under normal use. For warranty claims or technical assistance, please contact Battery Tender customer service.

**Customer Service:** For lifetime customer service and support, please refer to the contact information provided with your product packaging or visit the official Battery Tender website.

*Note: Do not attempt to repair the unit yourself. Unauthorized repairs will void the warranty.*