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› Fits Traveller 12V 6A Smart Battery Charger User Manual

Traveller 6033

Fits Traveller 12V 6A Smart Battery Charger User Manual

Model: 6033

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Fits Traveller 12V 6A Smart Battery Charger. Please read these instructions carefully before use and retain them for future reference. This charger is designed to maintain optimal health for 12V lead-acid batteries through a fully automatic 6-stage charging process.



Image: The Fits Traveller 12V 6A Smart Battery Charger, a compact blue and black unit, is shown with its attached power cord and red and black battery clamps. The front panel displays indicators for charging status.

IMPORTANT SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the charger or battery:

- Read all instructions before using the charger.
- Do not expose the charger to rain or snow.
- Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.
- To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
- An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock.
- Do not operate charger with damaged cord or plug. If damaged, have it repaired by a qualified service person.
- Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
- Do not disassemble charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.
- **EXPLOSIVE GASES:** Working in vicinity of a lead-acid battery is dangerous. Batteries generate explosive gases during normal battery operation. For this reason, it is of utmost importance that you read this manual and follow the instructions exactly before using the charger.

KEY FEATURES

The Fits Traveller Smart Battery Charger incorporates several advanced features for optimal performance and safety:

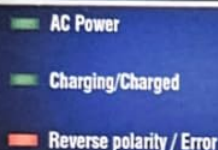
- **Versatile Compatibility:** Suitable for most 12V lead-acid batteries.
- **Smart Charging Technology:** Microprocessor-driven charging system for efficient and safe charging.
- **Multiple Charging Stages:** 6-stage charging process for optimal battery maintenance.
- **Safety Features:** Protection against reverse polarity, overcharging, short-circuiting, and overheating.
- **Portable Design:** Lightweight and compact construction for easy portability.
- **User-Friendly Features:** LED indicators, multifunction switch, and color-coded clamps.

6AMP Smart Battery Charger



MICROPROCESSOR-DRIVEN SYSTEM

Provides protection against reverse polarity, overcharging, short-circuiting, and overheating



LED INDICATORS

View charging/error status at a glance

12V CHARGING CAPABILITY

For most types of lead-acid batteries



Image: The product packaging displays key features of the 6AMP Smart Battery Charger, including its microprocessor-driven system, LED indicators for charging status, and 12V charging capability for lead-acid batteries. The charger itself is visible on the right.

SETUP AND CONNECTION

Follow these steps to properly set up and connect the battery charger:

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush and a baking soda/water mixture.
2. **Ventilation:** Ensure the charging area is well-ventilated.
3. **Connect to Battery:**
 - Connect the **RED** positive (+) clamp to the positive (+) battery terminal.
 - Connect the **BLACK** negative (-) clamp to the negative (-) battery terminal.
 - *For vehicles:* If connecting to a battery installed in a vehicle, connect the negative clamp to the vehicle chassis or engine block away from the battery and fuel line. Do not connect to the carburetor, fuel lines,

or sheet-metal body parts.

4. **Connect to Power:** Plug the charger's AC power cord into a standard 120V AC electrical outlet.
5. **Verify Connection:** The charger's LED indicators will illuminate to show the connection status and begin the charging process.

Important: Always connect the battery clamps before plugging the charger into the AC outlet, and disconnect the AC power before removing the battery clamps.

OPERATING INSTRUCTIONS

The Fits Traveller Smart Battery Charger features a fully automatic 6-stage charging process:

1. **Desulphation:** If the battery is deeply discharged, the charger will automatically enter desulphation mode to recover the battery.
2. **Soft Start:** A gentle charge is applied to protect the battery.
3. **Bulk Charge:** The main charging stage where the battery receives the majority of its charge at the selected current (2A/4A/6A).
4. **Absorption:** The charging current gradually decreases as the battery approaches full charge.
5. **Analysis:** The charger pauses charging to analyze the battery's condition.
6. **Float:** Once fully charged, the charger maintains the battery at an optimal voltage, preventing overcharging and keeping it ready for use.

LED Indicators

The LED indicators provide real-time status of the charging process:

- **AC Power:** Illuminates when the charger is connected to an AC power source.
- **Charging/Charged:** Indicates the battery's charging status. It will typically be solid during charging and change when fully charged.
- **Reverse Polarity/Error:** Illuminates if the battery clamps are connected incorrectly or if an error occurs. Disconnect immediately and re-check connections.

Selecting Charging Current (if applicable)

This model supports 2A, 4A, and 6A charging currents. Use the multifunction switch to cycle through the available charging rates. Select the appropriate current based on your battery's capacity and desired charging speed. A lower current is generally safer for smaller batteries and extends battery life.

MAINTENANCE

Proper maintenance ensures the longevity and performance of your battery charger:

- **Cleaning:** Disconnect the charger from power before cleaning. Wipe the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep cables neatly coiled to prevent damage.
- **Cable Inspection:** Periodically inspect the power cord and battery clamps for any signs of damage, fraying, or corrosion. Do not use the charger if any damage is found.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger does not turn on.	No AC power; faulty outlet; damaged power cord.	Check power outlet with another device. Ensure power cord is fully plugged in. Inspect cord for damage.
"Reverse Polarity/Error" LED is on.	Battery clamps connected incorrectly.	Disconnect charger from AC power. Reconnect RED clamp to positive (+) and BLACK clamp to negative (-).
Charger not charging battery.	Poor connection; battery is severely discharged or faulty; charger fault.	Ensure clamps have good contact with battery terminals. Test battery condition. If battery is completely dead, it may not accept a charge. Contact support if issues persist.
Charger gets hot during use.	Normal operation; poor ventilation; excessive load.	Some heat is normal. Ensure adequate ventilation around the charger. If excessively hot, disconnect and allow to cool.

If troubleshooting steps do not resolve the issue, please contact customer support.

SPECIFICATIONS

Attribute	Value
Model Number	6033
Input Voltage	120V AC, 60Hz
Output Voltage	12 Volts (DC)
Charging Current	2A / 4A / 6A (Selectable)
Charging Stages	6-Stage Automatic
Battery Type Compatibility	12V Lead-Acid Batteries (WET, MF, CA, EFB, GEL, AGM)
Safety Features	Reverse Polarity, Overcharging, Short-Circuiting, Overheating Protection
Certifications	UL Safety Certified
Product Dimensions	7.21 x 4.96 x 2.42 inches
Item Weight	1.57 pounds

WARRANTY AND SUPPORT

This product is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the manufacturer's official website. For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact the manufacturer directly.

Manufacturer: Traveller

For the most up-to-date support information, please visit the official Traveller website or contact their customer service department.

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