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› Strongway 6/12 Volt 4-Bank Smart Charger (4 Banks) - Instruction Manual

Strongway B0FC65LQWC

Strongway 6/12 Volt 4-Bank Smart Charger (4 Banks) - Instruction Manual

Model: B0FC65LQWC

Brand: Strongway

1. SAFETY INFORMATION

Always read and understand all instructions before using the charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Risk of Explosive Gas Mixture:** Batteries generate explosive gases during normal operation. Ensure adequate ventilation during charging.
- **Prevent Flames and Sparks:** Do not smoke or allow sparks or flames in the vicinity of the battery or engine.
- **Indoor Use Only:** Do not expose the charger to rain or snow.
- **Inspect Cables and Wires:** Regularly check for damaged cables or wires. Replace defective cords or wires immediately.
- **Avoid Overcharging:** This smart charger features float-mode monitoring to prevent overcharging, but always ensure proper mode selection.
- **Proper Connection/Disconnection:** Always connect and disconnect battery leads only when the supply cord is disconnected from the power outlet.

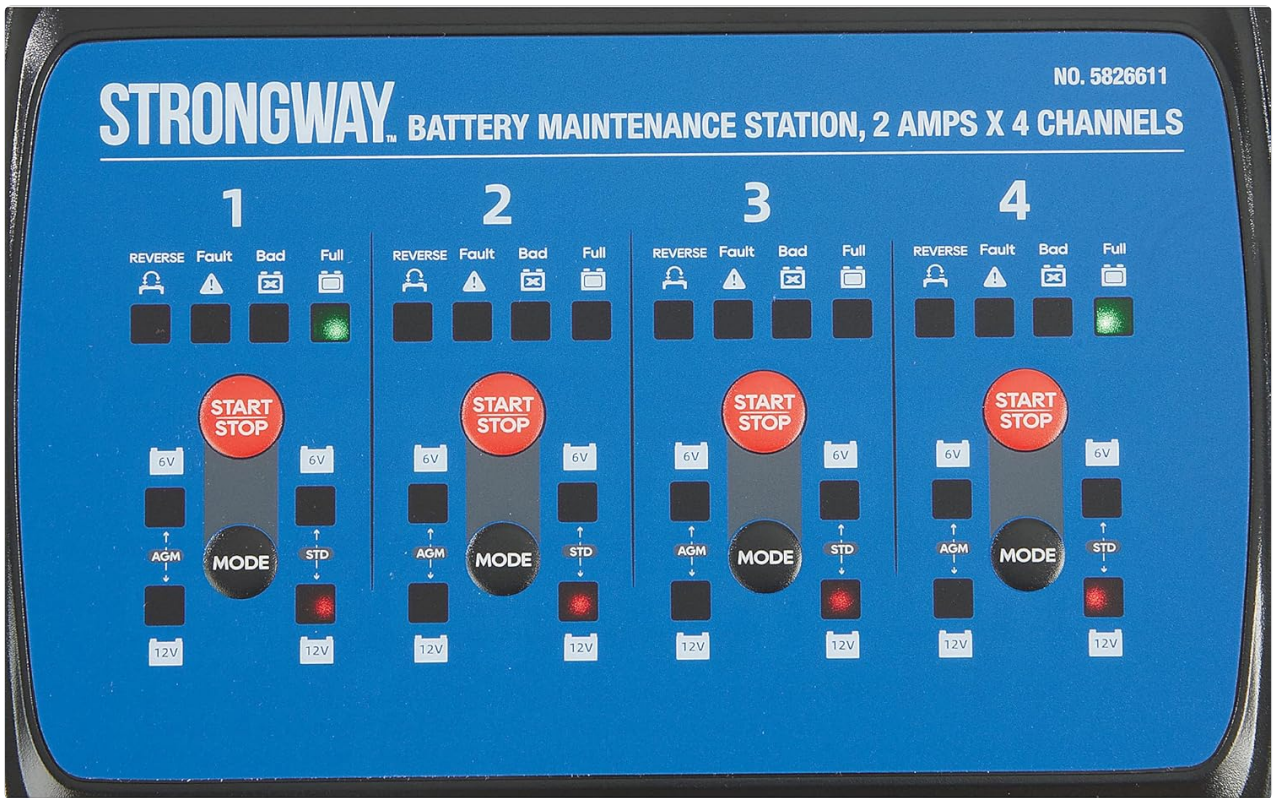


Image 1: Rear view of the Strongway 4-Bank Smart Charger, highlighting important safety warnings and product specifications.

2. PRODUCT OVERVIEW

The Strongway 6/12 Volt 4-Bank Smart Charger is designed for simultaneous charging and maintenance of up to four batteries independently. It features a 9-stage charging process for optimal performance and extended battery life. This charger is compatible with most powersports, car, and marine lead-acid batteries, including STD (Standard), AGM (Absorbed Glass Mat), Gel, and Deep-Cycle types.

Key features include microprocessor-controlled automatic amperage rate adjustment and multi-stage charging for precision and safety. The float-mode monitoring system automatically maintains optimum battery life without overcharging, making it suitable for long-term battery maintenance. The unit comes with waterproof quick connectors, heavy-duty clamps, and O-ring accessories for reliable connections in various environments.



Image 2: Front panel of the Strongway 4-Bank Smart Charger, displaying the four independent charging banks, status indicators, and mode selection buttons.



Image 3: The Strongway 4-Bank Smart Charger displayed with its complete set of accessories, including various connection options for different battery types.

3. SETUP

1. **Unpacking:** Carefully remove the charger and all accessories from the packaging. Inspect for any damage.
2. **Mounting (Optional):** The charger can be permanently mounted using the integrated mounting brackets. Ensure the mounting surface is stable and allows for adequate ventilation around the unit.
3. **Connect AC Power:** Plug the AC power cord into a standard 120 Volt AC outlet. The charger will power on.
4. **Connect Battery Leads:** Select the appropriate battery leads (heavy-duty clamps or O-ring terminals) for your battery type. Connect the red (+) clamp/terminal to the positive battery post and the black (-) clamp/terminal to the negative battery post. Ensure a secure connection.

5. **Connect Leads to Charger:** Plug the quick connector end of the battery leads into one of the four independent charging banks on the charger. Repeat for additional batteries.



Image 4: The charger is shown mounted and actively charging multiple batteries, demonstrating a typical setup.

4. OPERATING INSTRUCTIONS

Each of the four charging banks operates independently. Follow these steps for each battery you wish to charge:

1. **Power On:** Ensure the charger is plugged into an AC outlet. The power indicator will illuminate.
2. **Select Battery Type and Voltage:** For each connected battery, press the 'MODE' button on the corresponding bank to cycle through the available charging modes:
 - **6V:** For 6-volt lead-acid batteries.
 - **12V STD:** For 12-volt standard lead-acid batteries.
 - **12V AGM:** For 12-volt Absorbed Glass Mat batteries.
 - **12V GEL:** For 12-volt Gel Cell batteries.
 - **12V LITHIUM:** For 12-volt Lithium-Ion batteries.

The selected mode indicator will light up.

3. **Start Charging:** Once the correct mode is selected, the charger will automatically begin the 9-stage charging process. The charging status indicators will show the progress.

4. **Monitor Charging Status:** Each bank has a series of indicator lights:

- **Reverse:** Indicates reverse polarity connection. Correct the connection immediately.
- **Fault:** Indicates a charging fault or an issue with the battery.
- **Bad:** Indicates a severely damaged or unchargeable battery.
- **Charging Progress:** Multiple lights indicate the current charge level.
- **Full:** Indicates the battery is fully charged and the charger has entered float-mode.

5. **Stop Charging:** To stop charging a specific battery, disconnect the battery leads from the battery posts first, then unplug the quick connector from the charger bank.

5. CHARGING MODES AND TECHNOLOGY

The Strongway Smart Charger utilizes advanced technology to ensure efficient and safe charging:

- **9-Stage Precision Charging:** This comprehensive charging algorithm optimizes battery performance and extends its lifespan by carefully managing the charging process through various stages, including desulfation, soft start, bulk charge, absorption, equalization, analysis, recondition, float, and maintenance.
- **Dual Voltage Flexibility:** Supports both 6V and 12V batteries, providing versatility for different applications.
- **Microprocessor-Controlled:** The internal microprocessor automatically adjusts the amperage and voltage based on the battery's condition, ensuring a safe and efficient charge.
- **Float-Mode Monitoring:** Once a battery reaches full charge, the charger automatically switches to a maintenance mode, providing a small, continuous charge to keep the battery at optimal levels without overcharging. This is ideal for long-term storage.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your charger:

- **Cleaning:** Disconnect the charger from AC power and all batteries before cleaning. Use a dry cloth to wipe down the exterior. Do not use solvents or abrasive cleaners.
- **Cable Inspection:** Periodically inspect all charging cables, clamps, and connectors for any signs of wear, cuts, or damage. Replace any damaged components immediately to prevent hazards.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly coiled to prevent tangling or damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not powering on	No AC power; Faulty power cord	Check AC outlet; Inspect power cord for damage.
Battery not charging	Incorrect battery connection; Incorrect mode selected; Battery is severely discharged or damaged	Ensure correct polarity (+ to +, - to -); Select appropriate battery type/voltage; Use a repair mode if available (check manual for specific models) or consult a professional for battery assessment.
"Reverse" indicator lit	Reverse polarity connection	Disconnect AC power, then disconnect battery leads. Reconnect with correct polarity.
"Fault" or "Bad" indicator lit	Internal charger fault; Battery fault/damage	Disconnect and reconnect the battery. If the fault persists, the battery may be damaged or the charger may require service.

8. SPECIFICATIONS

- **Product Dimensions:** 10 x 7.4 x 4.1 inches
- **Item Weight:** 5.2 pounds
- **Input Voltage:** 120 Volts AC
- **Output Voltage:** 6V DC, 12V DC
- **Current Rating:** 2 Amps per bank (4 banks total)
- **Compatible Battery Types:** STD (Standard), AGM (Absorbed Glass Mat), Gel, Lithium (Lead-Acid)
- **Charging Stages:** 9-stage automatic charging
- **Features:** Microprocessor-controlled, automatic amperage adjustment, multi-stage charging, float-mode monitoring, waterproof quick connectors.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your product or contact Strongway customer service directly. Keep your purchase receipt for warranty claims.