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> SOURCEPOW 36V 105Ah Lithium Golf Cart Battery User Manual

sourcepow SP36105BT

SOURCEPOW 36V 105Ah Lithium Golf Cart Battery User Manual

Model: SP36105BT

1. INTRODUCTION

Thank you for choosing the SOURCEPOW 36V 105Ah Lithium Golf Cart Battery. This manual provides essential information for the safe and efficient use of your new LiFePO4 battery. Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of your battery.



Image 1.1: The SOURCEPOW 36V 105Ah Lithium Golf Cart Battery, accompanied by its dedicated charger and an LCD monitor for real-time data display.

2. SAFETY INFORMATION

Always prioritize safety when handling batteries. Failure to follow these guidelines may result in injury or damage to the battery and equipment.

- Do not short-circuit the battery terminals.
- Do not expose the battery to fire or extreme heat.
- Do not immerse the battery in water. The battery has IP65 water and dust protection, but it is not designed for submersion.
- Use only the specified 43.8V 25A LiFePO4 charger provided with the battery.
- Ensure proper ventilation during charging and operation.
- Keep out of reach of children.
- In case of leakage, avoid contact with skin and eyes. Seek medical attention if contact occurs.

3. PRODUCT OVERVIEW AND FEATURES

The SOURCEPOW 36V 105Ah LiFePO4 battery is engineered for high performance and durability, specifically designed for 36V golf carts and versatile enough for other applications.

Key Features:

- **Optimized for Golf Carts:** Perfectly compatible with Club Car, EZ-GO, LVTONG, and Yamaha golf cart brands. Delivers Max 2C continuous discharging current and 600A (32S) peak discharging current for powerful acceleration and hill climbing.
- **Grade A LiFePO4 Cells:** Constructed with Grade A EVE Prismatic LiFePO4 Cells, offering 4.032kWh energy and 7.68kW power. Provides stable performance with low self-discharge and capacity loss.
- **Upgraded 200A BMS Smart Protection:** Built-in Battery Management System (BMS) offers comprehensive protection against over-charge, over-discharge, over-current, high/low temperatures, and short-circuiting. Ensures thermal and chemical stability.
- **Long Lifespan & Maintenance-Free:** Boasts 6000+ cycles, significantly outperforming lead-acid batteries (300-500 cycles). Requires no daily maintenance.
- **Lightweight & Easy Installation:** Approximately 50% lighter than equivalent lead-acid batteries, simplifying handling and installation. No complex wiring required.
- **Bluetooth Functionality & LCD Monitor:** Connect via mobile APP to monitor real-time battery data (SOC, charge/discharge status, voltage, current, temperature, life cycles). An included Bluetooth LCD display (for products shipped after June 23, 2025) allows monitoring while driving. Note: Mobile app and LCD display cannot be logged in simultaneously.
- **Low Temperature Cut-Off Protection:** Automatically stops charging below 0°C/32°F and discharging below -20°C/-4°F to protect the battery in extreme conditions.
- **IP65 Water & Dust Protection:** Suitable for both indoor and outdoor installation.
- **Versatile Applications:** Ideal for golf carts, trolling motors, home energy storage, off-grid systems, RVs, marine applications, and lawn mowers.

38.4V 105AH GOLF CARTS BATTERY

USABLE ENERGY 4.032KWH

200A

Max. Continuous
Discharge Current

7.68KW

Max. Load Power

-20°C ~ 60°C

Wide Operation
Temperature Range

36V 105Ah SOURCEPOW
LIFEP04
Lithium Iron Phosphate Battery



Protect from over-charge, Over-discharge, Overcurrent,
Short circuit, and High/low-temperature cutoff

Image 3.1: An exploded view illustrating the internal components of the SOURCEPOW LiFePO₄ battery, highlighting its Grade A cells, robust BMS, and performance metrics.

LIGHTER, SMALLER & MORE POWERFUL REPLACEMENT FOR YOUR LEAD ACID BATTERY



Image 3.2: Visual comparison demonstrating the SOURCEPOW battery's compact size and reduced weight compared to traditional lead-acid batteries, making it an ideal replacement for golf carts.

4. WHAT'S IN THE BOX

Upon opening your package, please verify that all components are present:

- 1x SOURCEPOW 38.4V 105AH LiFePO4 Battery
- 1x SOURCEPOW 43.8V 25A LiFePO4 Charger
- 1x Bluetooth Instruction Manual
- 1x Battery Instruction Manual (this document)

NOTE: The battery and charger may be shipped in two separate packages. If you receive one without the other, please wait patiently for the second package to arrive.

5. SETUP AND INSTALLATION

The SOURCEPOW 36V 105Ah battery is designed for straightforward installation. Its lighter weight and compact size simplify the process compared to traditional lead-acid batteries.

Installation Steps:

1. **Prepare the Installation Area:** Ensure the battery compartment in your golf cart or other application is clean, dry, and free of debris.
2. **Remove Old Batteries (if applicable):** Carefully disconnect and remove existing lead-acid batteries. Note the wiring configuration before removal.
3. **Position the New Battery:** Place the SOURCEPOW LiFePO4 battery securely in the designated compartment. Ensure it is stable and will not shift during operation.
4. **Connect Wiring:** Connect the positive (+) and negative (-) terminals of the SOURCEPOW battery to your system's corresponding cables. Ensure all connections are tight and secure. Refer to your golf cart's specific wiring diagram if necessary.
5. **Connect Charger Port Wire (if applicable):** If your golf cart has a wire from the original charger port that prevents the cart from running when plugged in, connect this wire to the positive terminal of the new lithium battery.
6. **Initial Charge:** Before first use, fully charge the battery using the provided 43.8V 25A LiFePO4 charger.

Bluetooth Setup:

Refer to the dedicated Bluetooth Instruction Manual for detailed steps on connecting your battery to the mobile APP and setting up the Bluetooth LCD display.

6. OPERATING INSTRUCTIONS

Charging the Battery:

- Use only the provided 43.8V 25A LiFePO4 charger.
- Connect the charger to the battery's charging port, then plug the charger into a standard AC outlet.
- A full charge from 0% to 100% typically takes approximately 4.2 hours.
- The charger will indicate when charging is complete.

ALLOWS YOUR CART RUN SMOOTHER & SAFER

Up to 50 Miles On a Single Charge



BMS

200A BMS Protection



200A

Max. Continuous
Discharge Current



600A ^{32S}

Peak Current



1000A ^{3-5S}

Peak Current



50 MILES

Note: The range is 30-50 miles. Data is for reference only and may vary based on different operating conditions speeds, and environmental factors.

Image 6.1: A golf cart in motion, illustrating the extended range and power capabilities provided by the SOURCEPOW battery, including its advanced BMS and high discharge currents.

FEARLESS UPHILLS UNRESTRICTED TRAVEL



Image 6.2: A visual representation of the SOURCEPOW battery's superior performance on inclines, ensuring reliable power for challenging terrains.

Monitoring with Bluetooth:

- Use the mobile APP to view real-time battery status, including State of Charge (SOC), charge/discharge current, voltage, temperature, and cycle count.
- The Bluetooth LCD display provides convenient monitoring while operating your golf cart.
- Remember that the mobile app and LCD display cannot be connected simultaneously. Disconnect one before attempting to connect the other.

Low Temperature Protection:

The battery features advanced low-temperature cut-off protection:

- Charging will automatically cease if the battery temperature drops below 0°C (32°F).
- Discharging will automatically cease if the battery temperature drops below -20°C (-4°F).

LOW TEMP CUT-OFF PROTECTION



Image 6.3: Depiction of the battery's low-temperature cut-off protection, ensuring safe operation in cold climates.

7. MAINTENANCE

The SOURCEPOW LiFePO₄ battery is designed to be maintenance-free, eliminating the need for regular watering or terminal cleaning common with lead-acid batteries.

- **Cleaning:** Periodically wipe down the battery exterior with a dry, clean cloth to remove dust or dirt. Do not use harsh chemicals or abrasive cleaners.
- **Terminal Inspection:** Occasionally check the M8 terminals to ensure they remain tight and free of corrosion.
- **Storage:** If storing the battery for an extended period, ensure it is charged to approximately 50% State of Charge (SOC) and stored in a cool, dry place away from direct sunlight and extreme temperatures.
- **IP65 Protection:** While the battery offers IP65 water and dust protection, avoid prolonged exposure to heavy rain or direct water jets.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your SOURCEPOW battery.

Problem	Possible Cause	Solution
Battery not charging.	Charger not connected properly; Charger malfunction; Battery temperature too low.	Ensure charger is securely connected and plugged into a live outlet. Verify charger indicator lights. Move battery to a warmer environment if below 0°C (32°F).
Battery not discharging (no power).	Battery discharged; Battery temperature too low; BMS protection activated (over-discharge, over-current, short circuit).	Charge the battery. Move battery to a warmer environment if below -20°C (-4°F). Check for short circuits or excessive load. Disconnect load and reconnect after a few minutes to reset BMS.
Bluetooth APP/LCD display not connecting.	Bluetooth not enabled; Too far from battery; Mobile app and LCD display connected simultaneously.	Ensure Bluetooth is enabled on your device. Move closer to the battery. Disconnect the other Bluetooth device (mobile app or LCD display) before attempting to connect.
Battery package received without charger.	Battery and charger shipped separately.	This is normal for some shipments. Please wait patiently for the second package containing the charger to arrive.

If you experience issues not covered here or require further assistance, please contact SOURCEPOW customer service.

9. SPECIFICATIONS

Attribute	Specification
Model	SP36105BT
Nominal Voltage	36V (38.4V nominal)
Nominal Capacity	105Ah
Usable Energy	4.032kWh
Max. Continuous Discharge Current	200A (2C)
Peak Discharge Current (32S)	600A
Peak Discharge Current (3-5S)	1000A
Max. Load Power	7.68kW
BMS	Built-in 200A BMS with full protection
Cycle Life	6000+ cycles
Charging Voltage	43.8V (with 25A charger)
Charging Time (0-100%)	Approx. 4.2 hours
Operating Temperature Range	-20°C to 60°C (-4°F to 140°F)

Attribute	Specification
Low Temp Cut-off (Charging)	0°C (32°F)
Low Temp Cut-off (Discharging)	-20°C (-4°F)
Dimensions (L x W x H)	20.55 x 8.59 x 9.37 inches (522 x 218 x 238 mm)
Weight	67 lbs (approx. 30.4 kg)
Terminal Type	M8
Protection Rating	IP65

MULTIPLE APPLICATIONS



Image 9.1: The versatility of the SOURCEPOW battery, suitable for a wide range of applications beyond golf carts.

10. WARRANTY AND SUPPORT

SOURCEPOW is committed to providing high-quality products and excellent customer service.

- **Warranty:** Your SOURCEPOW 36V 105Ah LiFePO4 battery comes with a 5-year free warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
- **Technical Support:** We offer professional lifetime technical support. If you have any questions, concerns, or require assistance, please contact our customer service team. We aim to provide fast feedback within 24 hours.

For warranty claims or technical support, please refer to the contact information provided on our official website or your purchase documentation.

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