

## S2200 G2 AC LiPo Smart Charger

# Generic S2200 G2 AC LiPo Smart Charger User Manual

Model: S2200 G2 AC

## 1. INTRODUCTION

Thank you for choosing the Generic S2200 G2 AC LiPo Smart Charger. This manual provides essential information for the safe and efficient operation of your charger. Please read this manual thoroughly before using the device to ensure proper setup, operation, and maintenance. Retain this manual for future reference.

### 1.1 Important Safety Information

- Always operate the charger in a well-ventilated area, away from flammable materials.
- Never leave the charger unattended while in use.
- Ensure correct battery type and cell count settings before charging. Incorrect settings can lead to fire or explosion.
- Do not charge damaged, swollen, or leaking batteries.
- Keep the charger away from water, moisture, and extreme temperatures.
- Use only the original power cord and charging cables provided or approved by the manufacturer.
- This charger is designed for specific battery types (LiPo, LiFe, Lilon, NiMH, NiCd, Pb). Do not attempt to charge other battery chemistries.

## 2. PRODUCT OVERVIEW

The Generic S2200 G2 AC is a dual-port smart charger designed for various battery types, primarily LiPo batteries up to 6S. It features an integrated AC power supply, making it convenient for home use. Each channel can deliver up to 200W of power and 20A of current, allowing for fast and efficient charging of two batteries simultaneously.



Figure 1: Front view of the Generic S2200 G2 AC LiPo Smart Charger, showing the dual charging ports, balance ports, and control buttons with a central display screen.

### 3. PACKAGE CONTENTS

Please check the contents of your package upon opening. If any items are missing or damaged, contact your retailer immediately. Typical package contents include:

- Generic S2200 G2 AC LiPo Smart Charger Unit
- AC Power Cord
- Charging Cables (e.g., XT60, EC5, or similar, quantity may vary)
- Balance Boards (quantity may vary)
- User Manual (this document)

### 4. SETUP

#### 4.1 Connecting to Power

1. Place the charger on a stable, non-flammable surface.

2. Ensure the charger's power switch (if present) is in the OFF position.
3. Connect the supplied AC power cord to the AC input port on the back or side of the charger.
4. Plug the other end of the AC power cord into a suitable wall outlet (240V AC, as per specifications).
5. Turn the charger's power switch to the ON position. The display should illuminate.

## 4.2 Connecting Batteries

1. Identify the main discharge connector and the balance connector on your battery.
2. Connect the battery's main discharge connector to the corresponding output port on the charger (e.g., Channel 1 or Channel 2). Ensure the polarity is correct.
3. Connect the battery's balance connector to the appropriate balance port on the charger or balance board. Ensure the cell count matches the port (e.g., 2S, 3S, 6S).
4. Repeat for the second battery if using both channels.

## 5. OPERATION

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### 5.1 User Interface

The charger features a central LCD screen and several control buttons for navigation and setting adjustments. Typically, these include:

- **MENU/ENTER Button:** To confirm selections or enter menus.
- **UP/DOWN Arrows:** To navigate through options or adjust values.
- **START/STOP Button:** To initiate or terminate a charging/discharging process.
- **CHANNEL Select Button:** To switch between Channel 1 and Channel 2 settings.

### 5.2 Basic Charging Procedure (LiPo Example)

1. **Power On:** Turn on the charger.
2. **Select Channel:** Use the CHANNEL button to select the desired charging channel (1 or 2).
3. **Select Program:** Navigate to the 'LiPo CHARGE' or 'LiPo BALANCE' program using the arrow buttons and confirm with ENTER.
4. **Set Battery Voltage/Cell Count:** Adjust the cell count (e.g., 3S, 4S, 6S) to match your battery. The charger may auto-detect, but always verify.
5. **Set Charge Current:** Adjust the charge current (in Amps) based on your battery's capacity. A common guideline is 1C (e.g., for a 5000mAh battery, set 5.0A).
6. **Start Charging:** Press and hold the START button to initiate the charging process. The charger will typically perform a battery check before starting.
7. **Monitor Progress:** The display will show real-time information such as current voltage, charge current, charged capacity, and elapsed time.
8. **Completion:** The charger will beep and display a 'Charge Complete' message when finished. Disconnect the battery safely.

### 5.3 Other Modes

- **LiPo Fast Charge:** Charges the battery faster but may not balance cells as precisely.
- **LiPo Storage:** Charges or discharges the battery to a safe storage voltage (typically 3.85V per cell) for prolonged periods.

- **LiPo Discharge:** Discharges the battery to a user-defined voltage.
- **Other Battery Types:** The charger supports various battery types (LiFe, Lilon, NiMH, NiCd, Pb). Select the appropriate program and set parameters accordingly.

## 6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the charger's exterior. Do not use solvents or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Cable Inspection:** Regularly inspect all power and charging cables for signs of wear, damage, or frayed wires. Replace damaged cables immediately.
- **Ventilation:** Ensure the charger's ventilation openings are clear of dust and debris to prevent overheating.

## 7. TROUBLESHOOTING

| Problem                                 | Possible Cause  | Solution  |
|---|---|---|
| Charger does not power on               | No AC power; Power cord loose; Charger switch off                 | Check wall outlet; Ensure power cord is securely connected; Turn charger switch ON.   |
| "Connection Error" message              | Battery not connected properly; Damaged cable                     | Verify main and balance connections; Inspect cables for damage.                       |
| "Cell Voltage Error" or "Balance Error" | Incorrect cell count setting; Damaged battery; Balance lead issue | Verify cell count setting; Inspect battery for damage; Check balance lead connection. |
| Charger gets hot during operation       | Poor ventilation; High ambient temperature                        | Ensure adequate airflow around the charger; Operate in a cooler environment.          |

## 8. SPECIFICATIONS

| Feature                 | Specification   |
|-------------------------|---|
| Model                   | S2200 G2 AC   |
| Input Voltage           | 240 Volts AC  |
| Output Voltage          | 22 Volts (Max)  |
| Charge Current          | 20 Amps (Max per channel)                                   |
| Charge Power            | 200 Watts (Max per channel)                                 |
| Supported Battery Types | LiPo/LiFe/Lilon (1-6S), NiMH/NiCd (1-15S), Pb (2-20V)       |
| Discharge Power         | Typically 10-20W (per channel, specific value not provided) |
| Display                 | LCD Screen  |

| Feature | Specification          |
|---------|------------------------|
| Cooling | Integrated Cooling Fan |

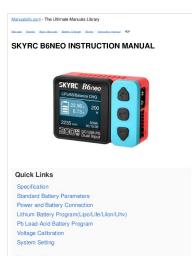
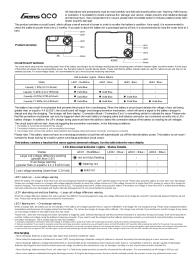
## 9. WARRANTY AND SUPPORT

Warranty information for the Generic S2200 G2 AC LiPo Smart Charger is typically provided by the retailer or manufacturer at the time of purchase. Please refer to your purchase documentation or contact your point of sale for details regarding warranty coverage and claims.

For technical support or further assistance, please contact the retailer from whom you purchased this product. They can provide guidance or direct you to the appropriate support channels.

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### Related Documents - S2200 G2 AC LiPo Smart Charger

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|---|---|
|   | <p><a href="#">Spektrum S2200 G2 AC Smart Charger: Dual 200W Charging Power</a></p> <p>Instruction manual for the Spektrum S2200 G2 AC Smart Charger. Learn about its dual 200W charging capabilities, Smart Technology features, supported battery types, safety precautions, and operation.</p>   |
|  | <p><a href="#">SkyRC B6neo Smart Charger Instruction Manual</a></p> <p>Comprehensive instruction manual for the SkyRC B6neo Smart Charger, detailing its features, specifications, operation for various battery types (LiPo, LiFe, Lilon, LiHV, NiMH, NiCd, Pb), DC power functionality, voltage calibration, error handling, system settings, and warranty information.</p> |
|  | <p><a href="#">Gens Ace &amp; Tattu LiPo Battery User Manual: Safety, Charging, and Operation Guide</a></p> <p>Detailed user manual for Gens Ace and Tattu LiPo batteries. Learn about product features, LED indicators, safe charging, discharging, storage, troubleshooting, and warranty information for RC hobby applications.</p>  |

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| <p><a href="#">Flipsky UBEC 20S 20A User Manual</a></p> <p><b>Flipsky UBEC 20S 20A User Manual</b></p> <p><b>Contents</b></p> <p>1. Safety Precautions</p> <p>2. Overview</p> <p>3. Features</p> <p>4. Technical Data</p> <p>5. Dimensions</p> <p>6. Installation</p> <p>7. Troubleshooting</p> <p>8. Warranty</p> <p>9. Conformity</p> <p>10. Contact</p> <p>11. Copyright</p> <p><a href="http://flipsky.net">http://flipsky.net</a></p> <p>E-mail: <a href="mailto:flipsky@outlook.com">flipsky@outlook.com</a></p> | <h2><u>Flipsky UBEC 20S 20A: User Manual &amp; Technical Specifications for RC Models</u></h2> <p>Detailed user manual for the Flipsky UBEC 20S 20A, an external DC voltage regulator designed for RC models. Covers safety precautions, overview, specifications, features, and usage guide for 4-20S LiPo battery packs.</p>           |
|   | <h2><u>SKYRC e3 LiPo Balance Charger Instruction Manual - Version 2</u></h2> <p>Official instruction manual for the SKYRC e3 100-240V AC LiPo balance charger (model SK-100081). Details safety guidelines, charging procedures, LED status indicators, technical specifications, warranty information, and conformity declarations.</p> |
|   | <h2><u>Spektrum S1400 G2 AC Smart Charger: Instruction Manual and User Guide</u></h2> <p>Get detailed instructions for the Spektrum S1400 G2 AC Smart Charger (1 x 400W). Learn about safe operation, battery compatibility (LiPo, LiFe, NiMH, Pb), charging modes, specifications, and warranty from Horizon Hobby.</p>                 |