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XINLANTECH 102641A HCLP

XINLANTECH 1200mAh Battery Replacement User Manual

For Sena Spider ST1, SP105, SP88, and Spyder 1S Motorcycle Communication Systems

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your XINLANTECH 1200mAh Lithium Polymer battery. This battery is designed as a replacement for specific Sena motorcycle communication systems.

Product Compatibility:

- Sena SPIDER ST1 Motorcycle Communication System
- Sena Spyder 1S Motorcycle Communication System
- Sena SP105 Battery Replacement
- Sena SP88 Battery Replacement

The XINLANTECH 1200mAh battery offers a reliable power source with a nominal voltage of 3.7V and a power rating of 4.44Wh, ensuring compatibility and performance for your device.

Battery for Sena SPIDER ST1 Motorcycle Bluetooth Communication System



Image 1.1: XINLANTECH 1200mAh Lithium Polymer battery, designed for Sena Spider ST1 Motorcycle Bluetooth Communication System. The battery features a white connector and three colored wires (red, black, yellow).

2. SAFETY INFORMATION

Please read and understand all safety instructions before handling or installing the battery. Failure to follow these instructions may result in fire, electric shock, injury, or damage to the product or property.

- **Do not disassemble, puncture, crush, or modify the battery.** This can lead to internal short circuits, overheating, and potential fire or explosion.
- **Avoid exposure to extreme temperatures.** Do not expose the battery to direct sunlight, heat sources, or temperatures above 60°C (140°F) or below -10°C (14°F).
- **Keep away from water and moisture.** Exposure to liquids can cause short circuits and damage.
- **Use only compatible chargers.** Charging with an incompatible charger may damage the battery or cause safety hazards.
- **Dispose of batteries properly.** Do not dispose of batteries in household waste. Follow local regulations for recycling lithium polymer batteries.
- **Built-in Safety Features:** This battery is equipped with internal protection against overcharging, overheating, and short circuits to enhance safety during normal operation. However, proper handling is still crucial.
- **Keep out of reach of children.**

3. INSTALLATION AND SETUP

Replacing the battery in your communication system requires careful handling. If you are unsure about any step, it is recommended to seek professional assistance.

Required Tools (Not Included):

- Small Phillips head screwdriver
- Plastic prying tool (optional, for opening device casing)

Installation Steps:

1. **Power Off Device:** Ensure your Sena communication system is completely powered off before beginning the replacement process.
2. **Locate Battery Compartment:** Refer to your Sena device's original manual to identify the battery compartment or casing screws.
3. **Open Device Casing:** Carefully unscrew any retaining screws and gently open the device casing. Use a plastic prying tool if necessary to avoid scratching the device.
4. **Disconnect Old Battery:** Locate the existing battery. Carefully disconnect its connector from the device's circuit board. Do not pull on the wires; grasp the connector itself.
5. **Remove Old Battery:** Gently remove the old battery from its position. Note how it was seated for proper placement of the new battery.
6. **Connect New Battery:** Take the XINLANTECH replacement battery. Align its connector with the port on the device's circuit board and gently push until it is securely seated. Ensure the connector is oriented correctly.
7. **Position New Battery:** Place the new battery into the compartment, ensuring wires are not pinched or stressed.
8. **Reassemble Device:** Carefully close the device casing and re-insert and tighten all screws. Do not overtighten.
9. **Initial Charge:** After installation, fully charge the new battery before its first use.



Image 3.1: Top view of the XINLANTECH 1200mAh battery, showing the model number '-102541A HCLP' and specifications '+3.7V 1200mAh 4.44Wh' printed on its surface, along with the attached connector.

4. OPERATION

Once installed, the XINLANTECH battery operates like the original battery in your Sena communication system.

- **First Use:** It is recommended to fully charge the battery before its initial use to calibrate the battery management system.
- **Charging:** Use the original charger or a compatible charger provided with your Sena communication system. The battery is designed to be charged at 3.7V nominal voltage, reaching 4.2V when fully charged.
- **Usage:** Battery life will vary depending on the usage patterns of your communication system, including volume levels, talk time, and features enabled.
- **Temperature:** Optimal operating temperature for lithium polymer batteries is typically between 0°C and 45°C (32°F and 113°F). Avoid using the device in extremely cold or hot conditions, as this can affect battery performance and lifespan.

5. MAINTENANCE

Proper maintenance can extend the lifespan and performance of your battery.

- **Storage:** If storing the device or battery for an extended period, store the battery at approximately 50% charge in a cool, dry place (around 20°C / 68°F). Avoid storing fully charged or fully depleted batteries for long durations.
- **Cleaning:** Keep the battery contacts and device charging ports clean and free of debris. Use a dry, soft cloth for cleaning.
- **Avoid Deep Discharges:** While the battery has protection, frequent deep discharges can reduce overall battery life. Recharge the battery before it is completely depleted.
- **Disposal:** When the battery reaches the end of its life, dispose of it responsibly according to local electronic waste regulations. Do not incinerate or dispose of with general household waste.

6. TROUBLESHOOTING

If you encounter issues with your battery, consider the following troubleshooting steps:

- **Device Not Powering On:**
 - Ensure the battery is correctly installed and its connector is securely attached.
 - Verify the battery has sufficient charge. Connect the device to a charger.
- **Battery Not Charging:**
 - Check the charging cable and adapter for damage.
 - Ensure the charging port on the device is clean and free of debris.
 - Try a different compatible charger if available.
- **Short Battery Life:**
 - Review your device's usage patterns. High volume, continuous communication, or multiple features running simultaneously can drain the battery faster.
 - Ensure the battery has been fully charged.
 - If the battery is old, its capacity may naturally degrade over time.
- **Overheating During Charge/Use:**
 - Immediately disconnect the charger or power off the device.
 - Allow the device and battery to cool down.
 - If overheating persists, discontinue use and contact support.

If these steps do not resolve the issue, please refer to the support section for further assistance.

7. SPECIFICATIONS

Feature	Specification
Battery Type	Lithium Polymer (LiPo)
Model Number	102641A HCLP
Capacity	1200mAh
Nominal Voltage	3.7V
Fully Charged Voltage	4.2V
Power	4.44Wh
Cut-off Voltage	2.85V
Compatible Devices	Sena SPIDER ST1, SP105, SP88, Spyder 1S



Image 7.1: Angled view of the XINLANTECH 1200mAh battery, highlighting its compact form factor and the attached wiring harness with a white connector.

8. WARRANTY AND SUPPORT

For detailed warranty information regarding your XINLANTECH 1200mAh battery, please refer to the

official XINLANTECH website or the documentation provided with your purchase.

If you require technical assistance, have questions about installation, or experience issues not covered in this manual, please contact XINLANTECH customer support through their official channels.