

Texas Instruments 3.7L1200SP

Texas Instruments Rechargeable Battery (Model 3.7L1200SP) User Manual

For TI Nspire, TI Nspire CAS, CX, CX CAS, and TI 84 Plus C SE Calculators

INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Texas Instruments 3.7L1200SP rechargeable battery. This battery is designed for compatibility with specific Texas Instruments calculators, including the TI Nspire, TI Nspire CAS, TI Nspire CX, TI Nspire CX CAS (V1.0 with wire), and TI 84 Plus C SE (with wire).

Please read this manual thoroughly before installing and using the battery to ensure proper function and longevity.

SETUP AND INSTALLATION

Follow these steps to replace or install the rechargeable battery in your compatible Texas Instruments calculator.

1. **Power Off:** Ensure your calculator is completely powered off before beginning the installation process.
2. **Locate Battery Compartment:** Identify the battery compartment on the back of your calculator.
3. **Remove Screws:** Use a small Phillips head screwdriver to remove the two screws securing the battery compartment cover. Carefully set the screws aside to avoid losing them.
4. **Open Cover:** Gently remove the battery compartment cover.
5. **Disconnect Old Battery (if applicable):** If replacing an old battery, carefully unplug its connector from the calculator's circuit board. Do not pull on the wires; grasp the connector itself.
6. **Insert New Battery:** Position the new 3.7L1200SP battery into the compartment. Ensure it fits snugly.
7. **Connect New Battery:** Carefully plug the new battery's connector into the corresponding port on the calculator's circuit board. Ensure the connection is secure.
8. **Replace Cover and Screws:** Place the battery compartment cover back into position and secure it with the two Phillips head screws. Do not overtighten.



Image: The Texas Instruments 3.7L1200SP rechargeable battery. This image shows the battery unit, which is installed into the calculator's battery compartment.

After installation, it is recommended to fully charge the battery before initial use.

OPERATING AND CHARGING

The 3.7L1200SP battery is designed for rechargeable use. Follow these guidelines for optimal performance.

Initial Charge

Upon first installation or after extended storage, fully charge the battery. A complete charge may take approximately one day (24 hours) to reach 100% capacity, especially if the battery is completely depleted.

Regular Charging

Connect your calculator to a power source using the appropriate charging cable (typically a USB cable provided with your calculator). The calculator's display will usually indicate the charging status. It is advisable to charge the battery when the charge level is low to maintain battery health.

Battery Life Indication

Your calculator's operating system will provide an indication of the battery charge level. This typically shows increments such as 0%, 25%, 50%, 75%, and 100%.

MAINTENANCE AND CARE

Proper care can extend the life of your rechargeable battery.

- **Avoid Deep Discharge:** Do not allow the battery to completely discharge for prolonged periods.

Recharge it when the charge level is low.

- **Storage:** If storing the calculator for an extended period, ensure the battery has a partial charge (around 50%) and store it in a cool, dry place. Avoid extreme temperatures.
- **Cleaning:** Keep the battery compartment clean and free of dust or debris.
- **Temperature:** Operate and charge the battery within recommended temperature ranges (typically room temperature) to prevent damage.

TROUBLESHOOTING

If you encounter issues with your battery, consider the following common solutions:

- **Battery Not Charging:**
 - Ensure the charging cable is securely connected to both the calculator and the power source.
 - Verify the power source is active.
 - Try a different charging cable or power adapter.
 - Confirm the battery connector inside the calculator is properly seated.
- **Short Battery Life:**
 - Ensure the battery has been fully charged. Initial charges can take longer.
 - Check for excessive background processes or high screen brightness on your calculator, which can drain the battery faster.
 - If the battery is several years old, its capacity may naturally degrade over time.
- **Calculator Not Powering On:**
 - Ensure the battery is installed correctly and fully charged.
 - Connect the calculator to a power source and attempt to power it on while connected.
 - If the issue persists, it may not be battery-related. Consult your calculator's specific user manual or Texas Instruments support.

SPECIFICATIONS

Model Number	3.7L1200SP
Voltage	3.7V
Capacity	1200mAh
Part Number	P11P35-09-N01 (1ICP5/43/50)
Battery Type	Lithium Ion
Compatibility	TI Nspire, TI Nspire CAS, TI Nspire CX, TI Nspire CX CAS (V1.0 with wire), TI 84 Plus C SE (with wire)
Item Weight	1.13 ounces
Package Dimensions	2.68 x 2.68 x 0.59 inches

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Texas Instruments battery or calculator, please refer to the official Texas Instruments website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Texas Instruments Official Website: education.ti.com