

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [XTAR](#) /

› [XTAR SC1 Plus Battery Charger and Power Bank User Manual](#)

XTAR SC1 PLUS

XTAR SC1 Plus Battery Charger and Power Bank User Manual

Model: SC1 PLUS | Brand: XTAR

1. INTRODUCTION

The XTAR SC1 Plus is a versatile single-slot battery charger designed for various rechargeable Li-ion and Ni-MH batteries. It features a 3A fast charging capability and can also function as a portable power bank, allowing you to charge other devices using an inserted battery. Its compact design and Type-C input make it suitable for travel and everyday use.

2. SAFETY INFORMATION

- Use this charger only for specified battery types (3.6/3.7V Li-ion, 1.2V Ni-MH D batteries). Charging other battery types may cause explosion, battery rupture, or leakage, leading to property damage and personal injury.
- Do not disassemble or modify the charger.
- Keep the charger away from water, high humidity, and high temperatures.
- Do not leave the charger unattended during operation.
- Keep out of reach of children.
- Ensure proper polarity when inserting batteries. Incorrect insertion can cause damage to the charger and battery.
- Use a compatible power adapter (QC/PD adapter >15W recommended for 3A fast charging).

3. PACKAGE CONTENTS

The XTAR SC1 Plus package includes:

- 1x XTAR SC1 Plus Charger
- 1x USB-C Cable
- 1x Adjustable Strap
- 1x User Manual



Image: XTAR SC1 Plus package contents.

4. PRODUCT FEATURES

- **Universal Compatibility:** Supports 3.6/3.7V Li-ion batteries (18650, 18700, 20700, 21700, 22650, 25500, 26650, 26800) and 1.2V Ni-MH D batteries. Optimized for protected 26800 Li-ion batteries.
- **3A Fast Charging:** Achieves maximum 3A charging current, capable of charging a 5000mAh battery to 90% in approximately 90 minutes.
- **Power Bank Function:** Converts into a portable power bank when a charged battery is inserted, providing 5V/2A USB output to charge other devices.
- **Type-C Input:** Convenient USB-C input port for power supply.
- **Adjustable Strap:** Features a stretchable and durable silicone belt to securely fasten batteries of various sizes.
- **Intelligent LED Indicators:** Four LED lights indicate charging status and battery power level (25%, 50%, 75%, 100%).
- **Battery Life Optimization:** Accurate cut-off voltage and efficient charging prevent overcharge, extending battery lifespan.
- **0V Activation:** Capable of activating over-discharged batteries.
- **Safety Certifications:** Complies with CE and FCC standards.



Image: XTAR SC1 Plus demonstrating compatibility with various battery sizes.



Image: Adjustable silicone strap for secure battery fit.

5. SETUP AND OPERATION

5.1 Charging Batteries

1. Connect the XTAR SC1 Plus charger to a power source using the provided USB-C cable. A QC/PD adapter (>15W) is recommended for optimal 3A fast charging.
2. Insert a compatible rechargeable battery into the charging slot, ensuring correct polarity (+ and - ends).
3. Adjust the blue silicone strap to securely hold the battery in place.
4. The LED indicators will illuminate to show the charging progress.
5. Once charging is complete, all four LED indicators will be solid. Remove the battery from the charger.



Image: XTAR SC1 Plus connected to a QC3.0 adapter for fast charging.



Image: Visual representation of the battery charging process.

5.2 Power Bank Function

1. Ensure a charged compatible battery is inserted into the XTAR SC1 Plus charger.
2. Connect your external device (e.g., smartphone, flashlight) to the USB-A output port of the SC1 Plus using a suitable USB cable.
3. The SC1 Plus will begin to discharge the internal battery to charge your external device. The LED indicators will show the remaining power level of the inserted battery.

Mini DIY Portable Power Source

As a portable power source, it provides maximum 24.48Wh when you use a 6800mAh 26800 battery to juice up all your electronic gadgets like flashlights, camp lights, mobile phones, and so on.



Image: XTAR SC1 Plus functioning as a power bank to charge a smartphone.



Image: XTAR SC1 Plus charging a small device.

6. BATTERY COMPATIBILITY

The XTAR SC1 Plus is compatible with the following battery types:

- **3.6V/3.7V Li-ion Batteries:** 18650, 18700, 20700, 21700, 22650, 25500, 26650, 26800 (including protected 26800 Li-ion batteries).
- **1.2V Ni-MH Batteries:** D size.

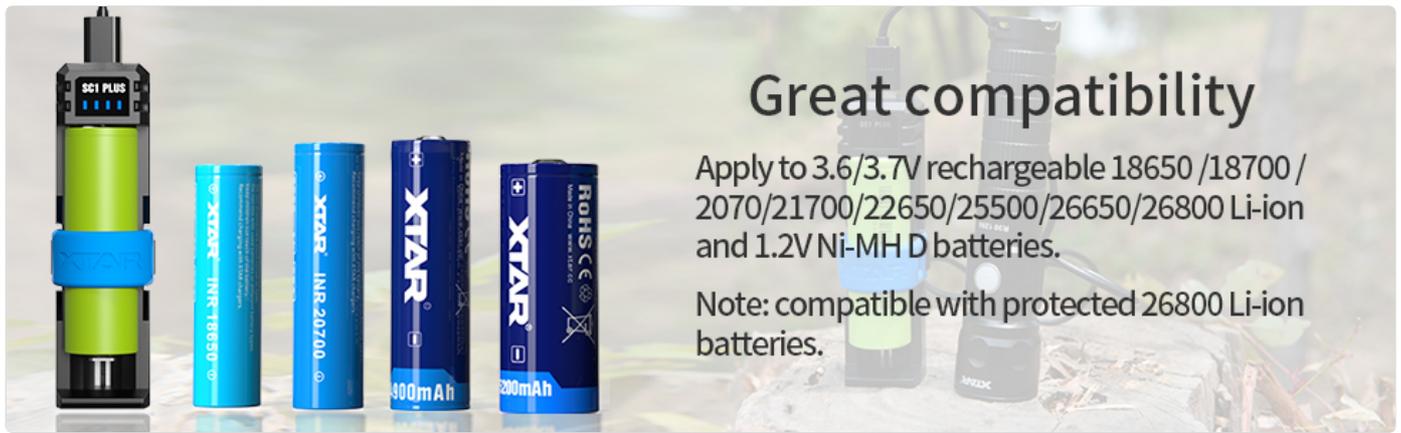


Image: Visual guide to compatible battery types and sizes.

7. LED INDICATORS

The XTAR SC1 Plus features four LED indicators to display charging status and battery power level:

- **One LED:** 0-25% charged / remaining power.
- **Two LEDs:** 25-50% charged / remaining power.
- **Three LEDs:** 50-75% charged / remaining power.
- **Four LEDs:** 75-100% charged / remaining power.

During charging, the LEDs will flash to indicate progress. Once fully charged, all four LEDs will remain solid.



Image: Explanation of LED indicator states for charge level.

8. MAINTENANCE

- Clean the charger regularly with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Store the charger in a cool, dry place when not in use.
- Avoid dropping or subjecting the charger to strong impacts.
- Ensure the USB-C port and USB-A port are free from dust and debris.

9. TROUBLESHOOTING

- **Charger not powering on:** Ensure the USB-C cable is securely connected to both the charger and a working power source. Try a different USB-C cable or power adapter.

- **Battery not charging:** Check if the battery is inserted with correct polarity. Ensure the battery is compatible with the charger. If the battery is deeply discharged (0V), the charger's activation function should attempt to revive it.
- **Slow charging:** Verify that your power adapter is capable of delivering sufficient power (QC/PD adapter >15W for 3A charging). The charger automatically adjusts current based on battery IR, so a very low or nearly full battery might charge slower.
- **Power bank function not working:** Ensure the inserted battery is sufficiently charged. Check the connection between the charger's USB-A output and your external device.

10. SPECIFICATIONS

Feature	Detail
Model	SC1 Plus
Type-C Input	5V ≈ 3A Max
Constant Current (Ni-MH)	1.45V ≈ 2Ax1 Max
USB Output	5V ≈ 2A
Cut-Off Voltage	4.20 ± 0.05V (Li-ion) / 1.45 ± 0.1V (Ni-MH)
Cut-Off Current	≤ 150mA
Operating Temperature	0-40 °C



SC1 PLUS BATTERY CHARGER SPECIFICATIONS

Model	SC1 Plus
Type-Input	5V ≈ 3A Max
Constant Current	1.45V ≈ 2Ax1 Max
USB Output	5V ≈ 2A
Cut-Off Voltage	4.20 ± 0.05V/1.45 ± 0.1V
Cut-Off Current	≤150mA
Operating Temperature	0-40°C

Image: Detailed specifications for the XTAR SC1 Plus charger.

11. PRODUCT VIDEO

Your browser does not support the video tag.

Video: Overview of the XTAR SC1 Plus 18650 26800 Battery Charger with Power Bank Function, demonstrating its features and usage.

12. WARRANTY AND SUPPORT

XTAR has a long history of manufacturing quality chargers. For any questions or support during use, please contact the XTAR official team via Amazon. Customer inquiries are typically responded to within 8 hours.

