

XTAR PB2SL V2

XTAR PB2SL V2 USB-C Battery Charger User Manual

MODEL: PB2SL V2

Brand: XTAR

1. PRODUCT OVERVIEW

The XTAR PB2SL V2 is a versatile USB-C battery charger designed for efficient and safe charging of various lithium-ion battery types, including 18650, 18700, 20700, and 21700. This compact device also functions as a portable power bank, offering dual-slot discharge and fast charging capabilities with QC3.0 and PD3.0 protocols. Its robust, flame-retardant design incorporates a clear OLED display for real-time charging information and a magnetic cover for secure battery storage.



Image 1: XTAR PB2SL V2 Charger showcasing its OLED display and compact design.

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Video 1: An overview of the XTAR PB2SL V2 charger, highlighting its features such as rubber-painted material, magnetic cover, fast charging capabilities (QC3.0+PD3.0), safety certifications, compatibility with various battery sizes, dual-port output, and available colors.

2. PACKAGE CONTENTS

Upon opening your XTAR PB2SL V2 package, you should find the following items:

- XTAR PB2SL V2 Charger (Black color)
- USB-C Cable
- User Manual



Image 2: The XTAR PB2SL V2 charger, USB-C cable, and user manual as included in the product packaging.

3. SPECIFICATIONS

Feature	Detail
Model	PB2SL V2
Input	QC3.0 & PD3.0 (5V=2A / 9V=2A / 12V=1.5A)
Output	4.2V=2A x 2 / 2A x 1 / 1A x 2
USB Output	QC3.0 & PD3.0 (5V=3A / 9V=2A / 12V=1.5A)

Feature	Detail
Compatible Batteries	3.6V/3.7V unprotected 18650/18700/20700/21700 and protected 18650 Li-ion batteries
Product Dimensions	125 x 58 x 27.5mm (4.72 x 5.91 x 1.97 inches)
Item Weight	85.2g (3.17 ounces)
Special Features	Fast Charger, Fast Charging, Power Bank Function, OLED Display
Certifications	UL, CE, FCC, RoHS
Manufacturer	SHENZHEN XTAR Electronics Co., Ltd

4. SETUP

4.1 Battery Installation

1. Remove the magnetic cover from the XTAR PB2SL V2.
2. Insert compatible 3.6V/3.7V unprotected 18650, 18700, 20700, 21700, or protected 18650 Li-ion batteries into the charging slots. Ensure correct polarity (+ and - ends) as indicated within the charger. Incorrect insertion may prevent detection or charging.
3. Replace the magnetic cover securely.



Image 3: The XTAR PB2SL V2 with its magnetic cover removed, showing the two battery slots and the ribbon for easy battery removal.

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Video 2: This video demonstrates the unboxing and setup of the XTAR PB2S charger, including how to insert batteries, the magnetic cover, and the various input/output ports. It also shows the charger's display and its ability to charge external devices.

5. OPERATING INSTRUCTIONS

5.1 Charging Batteries (Charger Function)

1. Insert batteries into the charger as described in Section 4.1.
2. Connect the XTAR PB2SL V2 to a power source using the provided USB-C cable. The charger supports QC3.0 and PD3.0 fast charging.
3. The OLED display will show the charging status, including battery levels, voltage, and current for each slot. The charger features a soft-start function and automatically cuts off when batteries are fully charged.

5.2 Charging External Devices (Power Bank Function)

1. Ensure charged batteries are installed in the XTAR PB2SL V2.
2. Connect your external device (e.g., smartphone, tablet) to the charger's USB-A output port or the USB-C input/output port using an appropriate cable.
3. The charger will begin supplying power to your device. The OLED display will indicate the output voltage and current.



Image 4: Close-up view of the XTAR PB2SL V2's USB-A output and USB-C input/output ports.

5.3 OLED Display

The 27 x 14mm OLED display provides real-time information:

- **Battery Level:** Shows the charge status of each individual battery.
- **Voltage (V):** Displays the current voltage.
- **Current (A):** Shows the charging or discharging current.
- **Charging/Discharging Status:** Indicates whether the unit is charging its internal batteries or discharging to an external device.

5.4 Flashlight Function

To activate the integrated flashlight, press and hold the power button for approximately 3 seconds. Repeat the action to turn off the flashlight.

6. MAINTENANCE

- Keep the charger clean and dry. Use a soft, dry cloth to wipe the surface.
- Avoid exposing the charger to extreme temperatures, direct sunlight, or high humidity.
- Do not disassemble or modify the charger, as this will void the warranty and may cause damage or injury.
- Store the charger and batteries in a cool, dry place when not in use.

7. TROUBLESHOOTING

- **Battery Not Detected:** Ensure batteries are inserted with correct polarity. Remove and re-insert batteries to confirm proper contact.
- **Slow Charging:** Verify that your power adapter and cable support QC3.0 or PD3.0 fast charging protocols for optimal speed.
- **Device Not Charging:** Check that the external device is properly connected and that the batteries in the PB2SL V2 are sufficiently charged.
- **Over-discharged Batteries:** The XTAR PB2SL V2 features 0V activation to revive over-discharged batteries. If a battery is not charging, leave it in the slot for a period to allow the activation function to work.

8. SAFETY INFORMATION

The XTAR PB2SL V2 is designed with multiple safety features to ensure reliable operation:

- **Built-in Protection Circuit:** Effectively prevents over-current, over-charge, over-voltage, and short-circuit conditions.
- **Soft-Start Function:** Gradually increases charging current to protect batteries.
- **Material:** Constructed from flame-retardant and fire-resistant PC materials for enhanced safety and durability.
- **Certifications:** Complies with UL, CE, and FCC safety standards.

WARNING: Do not leave charging batteries unattended. Use only compatible batteries and power adapters. Keep out of reach of children.

9. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the product packaging or visit the official XTAR website. If you encounter any issues or require technical assistance, please contact XTAR customer

support through their official channels.

XTAR Official Website: www.xtar.cc