

## XINLANTECH XL-18650-1S2P

# User Manual: XINLANTECH 3.7V 5200mAh Rechargeable Li-ion Battery Pack

Model: XL-18650-1S2P | Brand: XINLANTECH

## 1. INTRODUCTION

### 1.1 Product Overview

The XINLANTECH XL-18650-1S2P is a high-quality 3.7V 5200mAh rechargeable Li-ion battery pack designed to provide reliable power for compatible devices. It consists of two balanced 2600mAh cells connected in parallel, integrated with a protection circuit for enhanced safety and performance.

### 1.2 Intended Use

This battery pack is specifically designed as a replacement battery for various AOSU camera models. It is compatible with:

- AOSU C9E2CA11
- AOSU D1 SE
- AOSU DC8L
- AOSU C8L P1 Lite
- AOSU C9L SolarCam D1 Lite/D1 Classic
- AOSU C6L WirelessCam Lite

**5.2Ah 3.7v battery pack compatible with -  
AOSU Solar Security Camera C9E2CA11  
SolarCam D1 SE, C8L , C9L, D1, C6L WirelessCam**



Image 1.1: XINLANTECH battery pack showing compatible AOSU camera models.

## 2. SAFETY INFORMATION

Please read and understand all safety instructions before using this product. Failure to follow these instructions may result in fire, electric shock, or other injuries.

- Do not disassemble, open, or shred the battery pack.
- Do not expose the battery to heat or fire. Avoid storage in direct sunlight.
- Do not short-circuit the battery. Do not store battery packs haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials.
- Do not subject the battery to mechanical shock.
- In the event of a battery leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- Do not use any charger other than that specifically provided for use with the equipment.
- Keep the battery clean and dry.
- Do not leave a battery on prolonged charge when not in use.

- Dispose of properly according to local regulations. Do not dispose of with household waste.
- This battery features built-in protection against overcharge, overheating, and short circuits.

### 3. PACKAGE CONTENTS

The package includes:

- 1 x XINLANTECH 3.7V 5200mAh Rechargeable Li-ion Battery Pack (Model: XL-18650-1S2P)

## 4. SETUP

### 4.1 Battery Installation

Before replacing your old battery, carefully compare it with the new XINLANTECH battery pack. Pay close attention to the wiring and connector type. This battery pack features a 3-pin JST connector.

**Important Polarity Check:** The red wire connector is positive ('+'), and the black wire connector is negative ('-'). It is crucial to ensure the correct polarity when connecting the battery to your device. If the wire positions are reversed compared to your device's original battery or connection port, you may need to adjust the wire positions on the connector to match.



Image 4.1: Battery pack showing the JST connector and wire colors (red for positive, black for negative).

Carefully insert the battery into the designated compartment of your compatible AOSU camera, ensuring the connector is securely plugged in and the battery fits without force.



Image 4.2: Overall view of the XINLANTECH battery pack.

## 5. OPERATING INSTRUCTIONS

### 5.1 Charging

Use only the charger provided with your AOSU camera or a compatible charger designed for 3.7V Li-ion batteries with a maximum charge voltage of 4.2V. Connect the battery to the device, and then connect the device to its power adapter. The maximum charge current is 1C.

### 5.2 Discharging

The battery will discharge as it powers your device. The cut-off discharge voltage is 2.85V. The maximum discharge current is 15A. Avoid fully draining the battery to 0% frequently, as this can reduce its lifespan.

## 6. MAINTENANCE

- Store the battery in a cool, dry place away from direct sunlight and extreme temperatures.
- For long-term storage, it is recommended to store the battery at approximately 50% charge.
- Avoid exposing the battery to moisture or corrosive substances.
- Clean the battery contacts periodically with a dry, clean cloth to ensure good connection.

## 7. TROUBLESHOOTING

- **Battery not charging:** Ensure the charger is properly connected and functioning. Check the battery contacts for dirt or corrosion. Verify the battery is correctly installed with the correct polarity.
- **Device not powering on:** Check if the battery is fully charged. Ensure the battery is securely connected to the device. Verify the battery polarity is correct. If the issue persists, the battery or device may require professional inspection.
- **Shortened battery life:** This can be due to frequent full discharges, exposure to extreme temperatures, or the natural aging of the battery. Ensure proper charging and storage practices are followed.

## 8. SPECIFICATIONS

<b>Brand</b>	XINLANTECH
<b>Model Number</b>	XL-18650-1S2P
<b>Battery Type</b>	Rechargeable Li-ion Battery Pack
<b>Nominal Voltage</b>	3.7 V
<b>Typical Capacity</b>	5200 mAh
<b>Energy</b>	19.24 Wh
<b>Limit Charge Voltage</b>	4.2 V
<b>Cut-off Discharge Voltage</b>	2.85 V
<b>Max Charge Current</b>	1C
<b>Max Discharge Current</b>	15 A
<b>Weight</b>	99 g
<b>Reusability</b>	Rechargeable



Image 8.1: Product packaging displaying model number and barcode (X0022WJTBX).

## 9. WARRANTY AND SUPPORT

This product is manufactured by XINLANTECH. For any warranty claims or technical support, please refer to the contact information provided on the product packaging or reach out to your point of purchase.



Image 9.1: Product packaging with manufacturer and EU representative details.