



Manuals.plus /

› melasta /

› melasta 12V LiFePO4 Battery Power Bank User Manual

melasta PS12-60

melasta 12V LiFePO4 Battery Power Bank User Manual

Model: PS12-60

Brand: melasta

INTRODUCTION

This manual provides essential instructions for the safe and efficient use of your melasta 12V LiFePO4 Battery Power Bank, Model PS12-60. Please read this manual thoroughly before operating the device and retain it for future reference.

PACKAGE CONTENTS

Verify that all items are present in your package:

- melasta 12V/9V/5V Battery Power Bank (PS12-60)
- 14.6V AC/DC Charger
- DC 5525 Male Cable
- DC 4017 Male Cable
- Instruction Manual (this document)



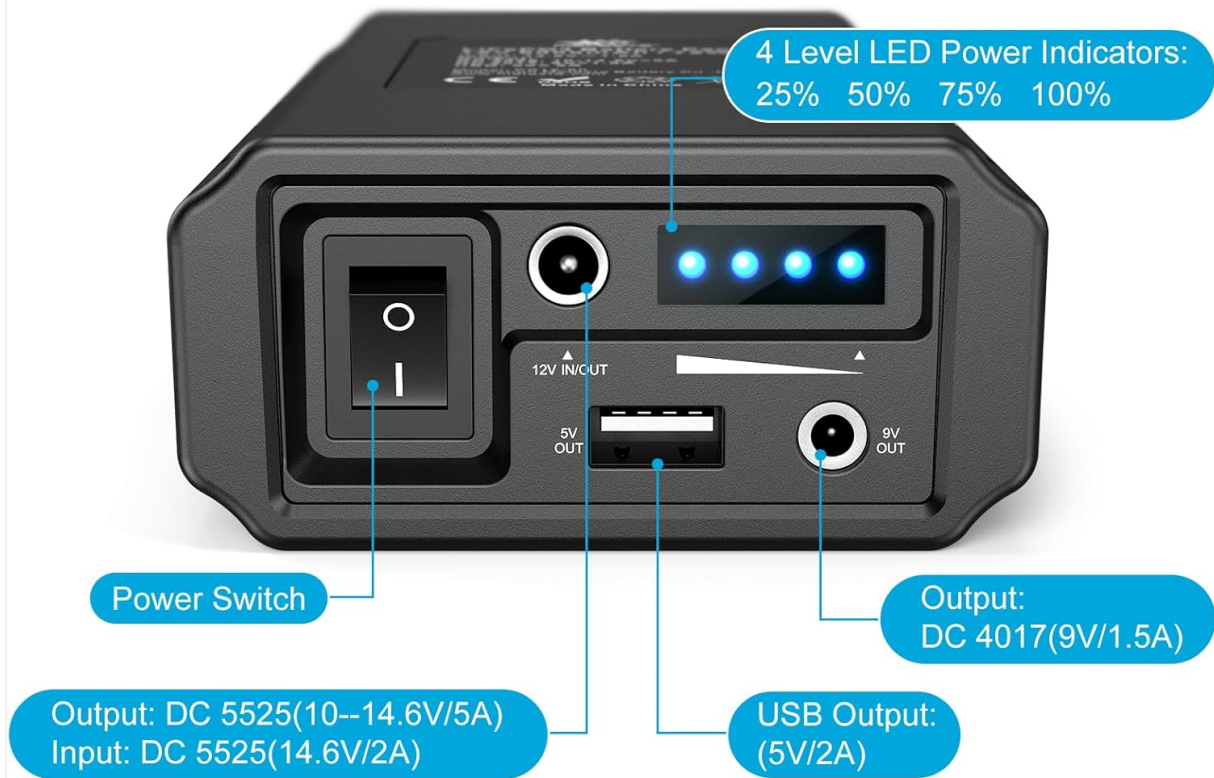
Image: Contents of the melasta 12V LiFePO4 Battery Power Bank package, including the power bank, AC/DC charger, and two DC output cables.

PRODUCT OVERVIEW

Familiarize yourself with the components and indicators of your power bank.

6000mAh 12V LiFePO4 Battery Pack

Long Time & Widely Use



Please turn on the Power Switch
(at position "-") for charging

Image: Detailed view of the power bank's top panel, showing the power switch, 12V DC input/output port, 5V USB output port, 9V DC output port, and four LED power indicators.

1. **Power Switch:** Toggles the power bank on/off. Must be in "on" position for charging.
2. **12V IN/OUT Port (DC 5525):** Used for charging the power bank (input) and providing 12V DC output.
3. **5V USB OUT Port:** Standard USB-A port for charging 5V USB devices.
4. **9V OUT Port (DC 4017):** Provides a constant 9V DC output.
5. **LED Power Indicators:** Four blue LEDs indicate the remaining battery capacity (25%, 50%, 75%, 100%).

SETUP AND INITIAL CHARGING

Before first use, fully charge the power bank.

1. **Connect the Charger:** Plug the provided 14.6V AC/DC charger into a wall outlet. Connect the charger's DC output plug to the **12V IN/OUT** port (DC 5525) on the power bank.
2. **Activate Charging:** Ensure the power switch on the power bank is in the "on" position (indicated by "-"). The LED indicators will illuminate, showing the charging progress.
3. **Full Charge Indication:** All four LED indicators will be solid blue when the power bank is fully charged. Disconnect the charger once charging is complete.

Note: If the power bank is not charging, verify that the power switch is in the "on" position.

OPERATING INSTRUCTIONS

Powering On/Off

- To turn on the power bank, slide the power switch to the "on" position (-). The LED indicators will show the current battery level.
- To turn off the power bank, slide the power switch to the "off" position (O).

Using DC Outputs (12V, 9V)

- **12V DC Output:** Connect your 12V device to the **12V IN/OUT** port using the appropriate DC 5525 cable. The 12V output voltage range is 10V to 14.6V and is not constant. Ensure your device is compatible with this voltage range.
- **9V DC Output:** Connect your 9V device to the **9V OUT** port using the appropriate DC 4017 cable. This output provides a constant 9V.
- **Important Note for 9V Devices:** The power bank's DC ports have an inner positive (+) and outer negative (-) polarity. Many guitar pedals and similar devices have reversed polarity (inner negative, outer positive). You may require a reversed polarity cable (not included) to connect such devices. Verify your device's polarity requirements before connecting.

Using USB Output (5V)

- Connect your 5V USB-powered device (e.g., mobile phone, tablet) to the **5V USB OUT** port using a standard USB cable. This port provides a constant 5V output.



Image: The power bank simultaneously providing power to a router via DC output, a smartphone via USB, and a tablet via USB.

COMPATIBILITY

The melasta PS12-60 power bank is compatible with a wide range of 12V, 9V, and 5V devices, including but not limited to:

- LED strip lights
- CCTV cameras, IP cameras
- LED panels
- Audio amplifiers
- Modems, Wi-Fi routers
- Car DVRs
- Speakers
- Mobile phones, tablets
- Robotic telescopes
- Guitar multi-effects pedals (may require polarity reversal cable)

Compatible

LED Strip, ID Camera, Amplifier, Modem, Car DVR,
Mobile Phone, Tablet, Router, etc.



Image: Visual representation of the power bank's compatibility with devices such as LED strips, security cameras, routers, smartphones, and tablets.

MAINTENANCE AND STORAGE

- **Periodic Charging:** If the power bank is not used for an extended period, charge it periodically (e.g., every 3-6 months) to maintain battery health.
- **Storage:** Store the power bank in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the power bank. Do not use liquid cleaners or immerse the device in water.

- **Avoid Impact:** Protect the power bank from drops or strong impacts.

SAFETY INFORMATION

The melasta PS12-60 features a built-in Battery Management System (BMS) for comprehensive protection:

- Over-Charge Protection
- Over-Discharge Protection
- Over-Current Protection
- Short-Circuit Protection
- Over-Voltage Protection
- Over-Heat Protection

Despite these safety features, always observe the following precautions:

- Do not disassemble, modify, or attempt to repair the power bank.
- Do not expose the power bank to water, fire, or high temperatures.
- Use only the provided charger and cables.
- Keep out of reach of children.
- Dispose of the battery responsibly according to local regulations.



Image: An exploded view of the power bank highlighting its fireproof casing, premium battery cells, advanced temperature control, and multiple safety protections.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Power bank not charging.	Power switch is off. Charger not connected properly. Faulty charger/cable.	Ensure power switch is in "on" position (-). Reconnect charger securely. Try a different compatible charger/cable if available.
Device not charging from power bank.	Power bank is off. Low battery on power bank. Incorrect cable/port. Device incompatibility.	Turn on power bank. Check LED indicators for battery level; recharge if low. Ensure correct DC or USB cable is used with the correct port. Verify device voltage/polarity requirements.
9V device not working (e.g., guitar pedal).	Polarity mismatch.	The power bank's DC port is inner positive (+), outer negative (-). Many guitar pedals are inner negative, outer positive. A polarity reversal cable may be required.

SPECIFICATIONS

Feature	Detail
Model Number	PS12-60
Battery Type	LiFePO4 (Lithium-Phosphate)
Capacity	6000mAh / 72Wh
Input (Charging)	DC 5525: 14.6V / 1.5A
Output 1 (DC 5525)	10V - 14.6V / 5A (Not constant)
Output 2 (DC 4017)	9V / 1.5A (Constant)
Output 3 (USB)	5V / 2A (Constant)
Dimensions	168mm x 89mm x 43mm (6.61in x 3.5in x 1.69in)
Weight	750g (1.65 lbs)

Small and Light , Portable and Easy to Carry



168mm*89mm*43mm
(6.31in*3.5in*1.69in)



750g / 1.65Lb



Image: The melasta power bank shown with its dimensions and a size comparison to a modern smartphone.

WARRANTY AND CUSTOMER SUPPORT

melasta is committed to providing quality power products and customer service. Defective units may qualify for Amazon's return policy.

If you encounter any problems or have questions regarding your melasta 12V LiFePO4 Battery Power Bank, please contact our customer service for assistance. Our team is ready to provide one-on-one solutions.

For support, please refer to the contact information provided with your purchase or visit the official melasta website.