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› [Talentcell](#) /

› [Talentcell 12V LiFePO4 Battery Pack LF4106 Instruction Manual](#)

Talentcell LF4106

Talentcell 12V LiFePO4 Battery Pack LF4106 Instruction Manual

Model: LF4106

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your Talentcell 12V LiFePO4 Battery Pack, model LF4106. Please read these instructions carefully before operating the device and retain them for future reference.

2. PRODUCT OVERVIEW

The Talentcell LF4106 is a high-capacity 12.8V 6000mAh (76.8Wh) Lithium Iron Phosphate (LiFePO4) battery pack designed for various electronic devices. It features multiple output ports for versatility and a long cycle life.

Key Features:

- **Long Cycle Life:** Over 2000 charge/discharge cycles.
- **Multiple Output Voltages:** DC5521 (12.8V nominal), DC4017 (9V), DC35135 (6V), and USB (5V).
- **High Capacity:** 6000mAh / 76.8Wh.
- **Safety Protections:** Includes over-charge, over-discharge, and short-circuit protection.
- **Versatile Compatibility:** Suitable for LED strips, CCTV cameras, mobile devices, portable TVs, fish finders, and more.

Component Identification:

Familiarize yourself with the various ports and indicators on your battery pack.

LONG CYCLE LIFE

2000+ CYCLES



Image 2.1: Front view of the Talentcell LF4106 battery pack, showing the power button, LED indicator, 12V output, 9V output, 6V output, and 5V USB output ports.

- **Power Button:** Turns the battery pack on or off.
- **LED Indicator:** Displays battery charge level and output voltage.
- **DC5521 Output:** 12.8V (nominal) / 5A Max. Inner Positive (+), Outer Negative (-).
- **DC4017 Output:** 9V / 2A Max.
- **DC35135 Output:** 6V / 2A Max.
- **USB Output:** 5V / 2A Max.
- **Input Port:** For charging the battery pack (14.4-14.6V/1.5A).

3. SETUP AND CHARGING

Before initial use, fully charge the battery pack using the provided charger.

1. **Connect the Charger:** Plug the 14.4V/1.5A LiFePO4 battery charger into a standard wall outlet.
2. **Connect to Battery Pack:** Insert the charger's DC plug into the input port of the LF4106 battery pack.
3. **Monitor Charging:** The LED indicator on the battery pack will show the charging status. Charge until the indicator shows a full charge.
4. **Disconnect:** Once fully charged, disconnect the charger from the battery pack and the wall outlet.

Note: The battery pack may arrive with a low charge. It is recommended to fully charge it before first use to optimize battery life.

4. OPERATION

To operate the Talentcell LF4106 battery pack, follow these steps:

1. **Power On:** Press the power button to turn on the battery pack. The LED indicator will illuminate, showing the current voltage and charge level.
2. **Connect Device:** Select the appropriate output port (12V, 9V, 6V, or 5V USB) for your device and connect it using the correct cable. Ensure the device's voltage requirement matches the selected output.
3. **Power Off:** After use, disconnect your device and press the power button again to turn off the battery pack. This conserves power.

Important Considerations:

- The DC5521 output provides a nominal 12.8V. During discharge, the voltage typically ranges from 12V to 13V for over 90% of the cycle.
- Always ensure the polarity of your device matches the battery pack's DC ports (Inner Positive, Outer Negative).
- Do not exceed the maximum current ratings for each output port.

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your LiFePO4 battery pack.

- **Periodic Charging:** If the battery pack is not used for an extended period, charge it periodically (e.g., every 3-6 months) to maintain its health.
- **Storage Temperature:** Store the battery pack in a cool, dry place. The recommended long-term storage temperature is 15°C to 25°C (59°F to 77°F).
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the battery pack. Do not use liquid cleaners.

6. TROUBLESHOOTING

If you encounter issues with your Talentcell LF4106 battery pack, refer to the following common solutions:

- **Battery Pack Not Turning On:**
 - Ensure the battery is charged. Connect it to the charger and check the LED indicator.
 - Press and hold the power button for a few seconds to ensure it's fully engaged.
- **Device Not Receiving Power:**
 - Verify the battery pack is turned on.
 - Check that the correct output port is being used for your device's voltage requirement.
 - Ensure the connection cable is securely plugged into both the battery pack and your device.
 - Confirm the device's power input polarity matches the battery pack's output.
 - Check if your device requires more current than the port's maximum output.
- **Charging Issues:**
 - Ensure the charger is properly connected to both the wall outlet and the battery pack.
 - Verify that you are using the original 14.4V/1.5A LiFePO4 charger provided with the unit.

- Check for any damage to the charger or cables.

If problems persist, contact Talentcell customer support for assistance.

7. SPECIFICATIONS

Model	LF4106
Capacity	12.8V 6000mAh (76.8Wh)
Input	14.4-14.6V / 1.5A
DC5521 Output	Nominal 12.8V (14.6-9V) / 5A Max
DC4017 Output	9V / 2A Max
DC35135 Output	6V / 2A Max
USB Output	5V / 2A Max
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-10°C to 50°C (14°F to 122°F)
Recommended Long-Term Storage Temperature	15°C to 25°C (59°F to 77°F)
Product Dimensions	6.61 x 3.5 x 1.69 inches (168 x 89.2 x 43 mm)
Item Weight	1.68 pounds (760g)



760g/1.66Lb

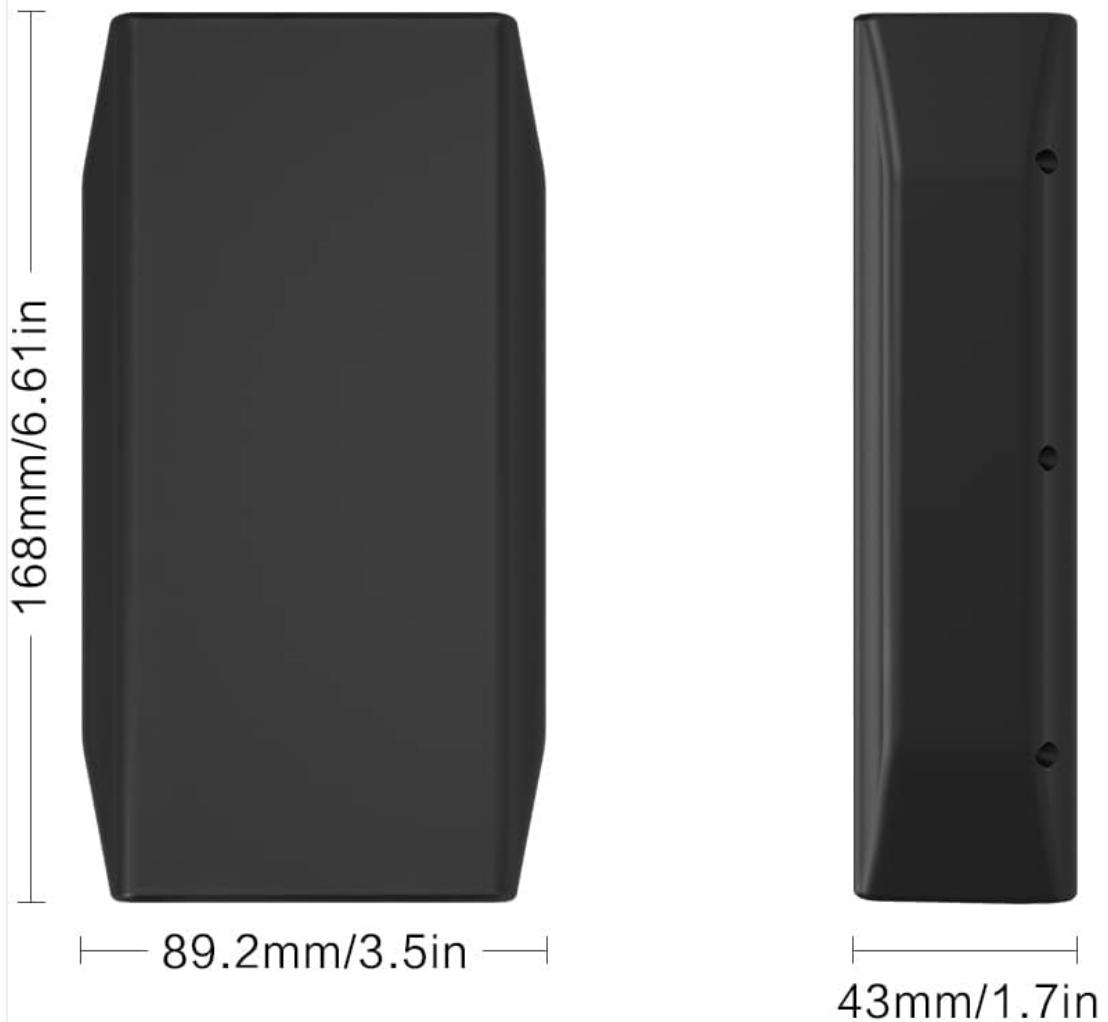


Image 7.1: Dimensions of the Talentcell LF4106 battery pack.

8. SAFETY INFORMATION

Please observe the following safety precautions to prevent damage to the battery pack or injury to yourself:

- Do not use the 12V lithium battery pack in places with high humidity or where it may be exposed to wet conditions.
- Do not modify or disassemble the power bank.
- Do not throw the 12 volt power bank into fire or water.
- Do not reverse the polarity of the battery pack when connecting devices.
- Keep out of reach of children.

9. PACKAGE CONTENTS

The following items are included in your Talentcell LF4106 package:

- 1x 12V LiFePO4 battery pack (LF4106)
- 1x 14.4V/1.5A LiFePO4 battery charger
- 1x 14.4V/1A car charger
- 1x DC5521 1 female to 2 male power cable
- 1x DC4017 male to DC5521 male power cable
- 1x DC35135 male to DC5521 male power cable

Packing list



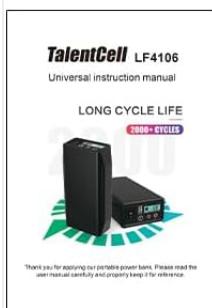
Battery



14.4V/1.5A
AC/DC charger



14.4V/1A
car charger



User manual



DC5521 1 female
to 2 male cable



DC35135 male to
DC5521 male cable



DC4017 male to
DC5521 male cable

Image 9.1: Contents included in the Talentcell LF4106 battery pack package.