

65W PD 3.1 DIY Power Bank Kit

65W PD 3.1 DIY Power Bank Kit User Manual

Model: 65W PD 3.1 DIY Power Bank Kit | Brand: Generic

1. INTRODUCTION

Thank you for choosing the Generic 65W PD 3.1 DIY Power Bank Kit. This kit allows you to assemble a powerful portable charger using 8x18650 batteries (not included). It features 65W PD 3.1 fast charging, an adjustable 3.3-24V DC output, and a tool-free snap-on design for easy assembly. This manual provides essential information for safe and efficient use of your power bank kit.

2. SAFETY INFORMATION

- **Battery Compatibility:** Use only flat-top 18650 lithium-ion batteries. Do not use pointed-top or protected 18650 batteries, as they may not fit or function correctly.
- **Correct Polarity:** Always insert batteries with the correct positive (+) and negative (-) polarity as indicated inside the battery compartments. Incorrect insertion can damage the device and pose a safety risk.
- **Battery Condition:** Ensure all 18650 batteries used are in good condition, free from damage, swelling, or leaks. Do not mix old and new batteries, or batteries of different capacities/brands.
- **Charging Environment:** Charge the power bank in a well-ventilated area, away from flammable materials. Do not leave charging unattended for extended periods.
- **Water and Heat:** Keep the device away from water, moisture, and extreme temperatures. Do not expose to direct sunlight for prolonged periods.
- **Disassembly:** Do not attempt to disassemble or modify the power bank kit beyond the intended battery installation. This will void the warranty and may cause damage or injury.
- **Children:** Keep out of reach of children.

3. PACKAGE CONTENTS

Please check the package for the following items:

- 1 x 65W PD 3.1 DIY Power Bank Kit Housing
- User Manual (this document)

Note: 18650 batteries are NOT included and must be purchased separately.

4. SETUP AND BATTERY INSTALLATION

The power bank kit features a tool-free snap-on design for easy assembly.

1. **Open the Housing:** Gently slide or snap open the power bank housing. The design allows for easy access to the battery compartments without tools.
2. **Insert 18650 Batteries:** Insert up to eight (8) flat-top 18650 batteries into their respective slots. Pay close attention to the polarity markings (+ and -) inside each compartment. Incorrect polarity can damage the device.
3. **Close the Housing:** Once all batteries are securely in place with correct polarity, snap the housing back together until it is firmly closed.

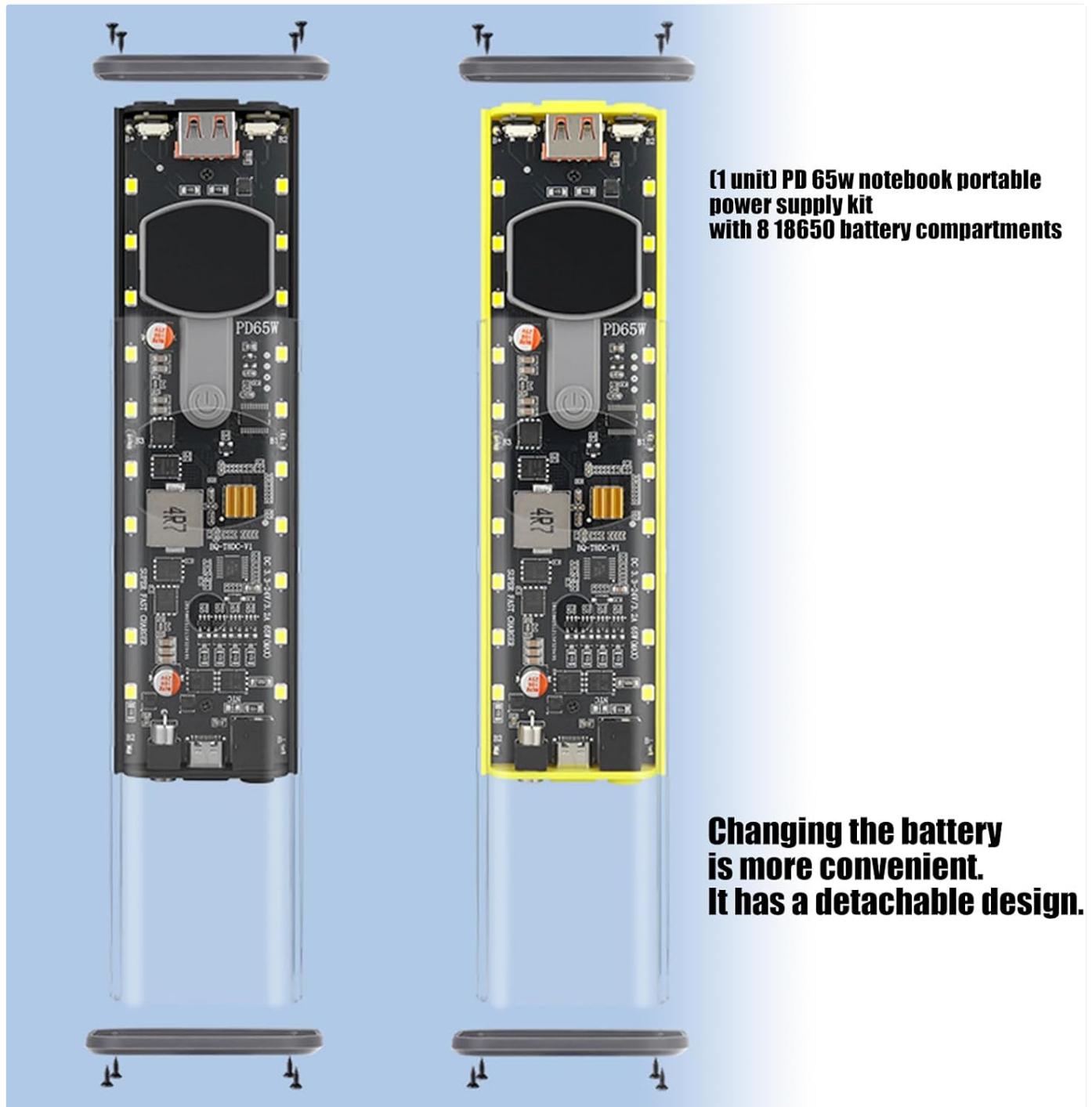


Figure 4.1: Exploded view illustrating the tool-free snap-on assembly and the 8x18650 battery compartments. Ensure correct battery orientation.



Figure 4.2: An overview of the 65W PD 3.1 DIY Power Bank Kit, showcasing both black and yellow color options and the transparent design.

5. OPERATING INSTRUCTIONS

Familiarize yourself with the ports and controls:

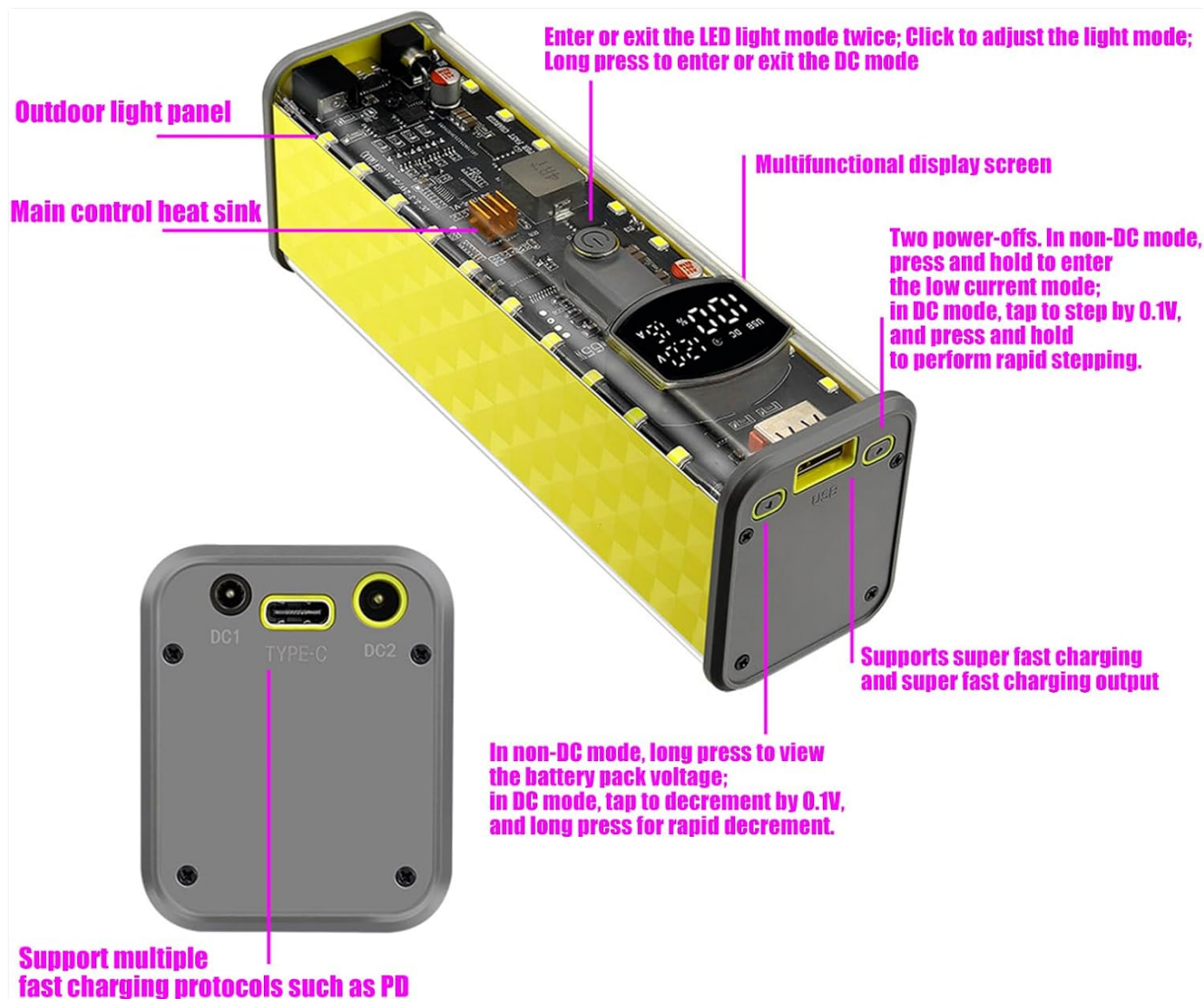


Figure 5.1: A detailed diagram labeling the various ports, buttons, and display features of the power bank kit for easy identification.

5.1 Charging the Power Bank

- Connect a compatible USB-C PD charger (up to 65W) to the USB-C port on the power bank.
- The digital display will show the charging status and battery percentage.
- For optimal charging speed, use a PD3.1 compatible charger and an E-Mark certified USB-C cable.

5.2 Charging External Devices (USB-C & USB-A)

- **USB-C Output:** Connect your laptop, tablet, or smartphone to the USB-C port using a compatible cable. The USB-C port supports up to 65W PD 3.1 fast charging.
- **USB-A Output:** Connect devices to the USB-A port for standard charging.
- **Note on Simultaneous Output:** When multiple ports are used simultaneously, the total output is limited to 5V to ensure safety and compatibility. For maximum charging speed, use a single output port.



Figure 5.2: The black power bank kit actively charging a laptop via its USB-C port, demonstrating its 65W PD 3.1 capability.

5.3 Adjustable DC Output (3.3-24V)

The power bank features two DC output ports (DC5.5×2.1 and DC3.8×1.35) with adjustable voltage.

1. **Activate DC Mode:** Long press the designated button (refer to Figure 5.1) to enter or exit DC output mode.
2. **Adjust Voltage:** In DC mode, tap the button to increment the voltage by 0.1V. Press and hold the button for rapid voltage adjustment.
3. **Decrement Voltage:** To decrease voltage, use the other designated button (refer to Figure 5.1). Tap to decrement by 0.1V, and long press for rapid decrement.
4. **Connect Device:** Connect your router, LED light strip, cooling fan, or other small DIY electronics to the appropriate DC port. Ensure the voltage matches the requirements of your device.

**Supports PD3.1 protocol for 20V/3.25A (MAX) high-voltage charging,
and is compatible with PD 20W - 200W high-power chargers for charging**

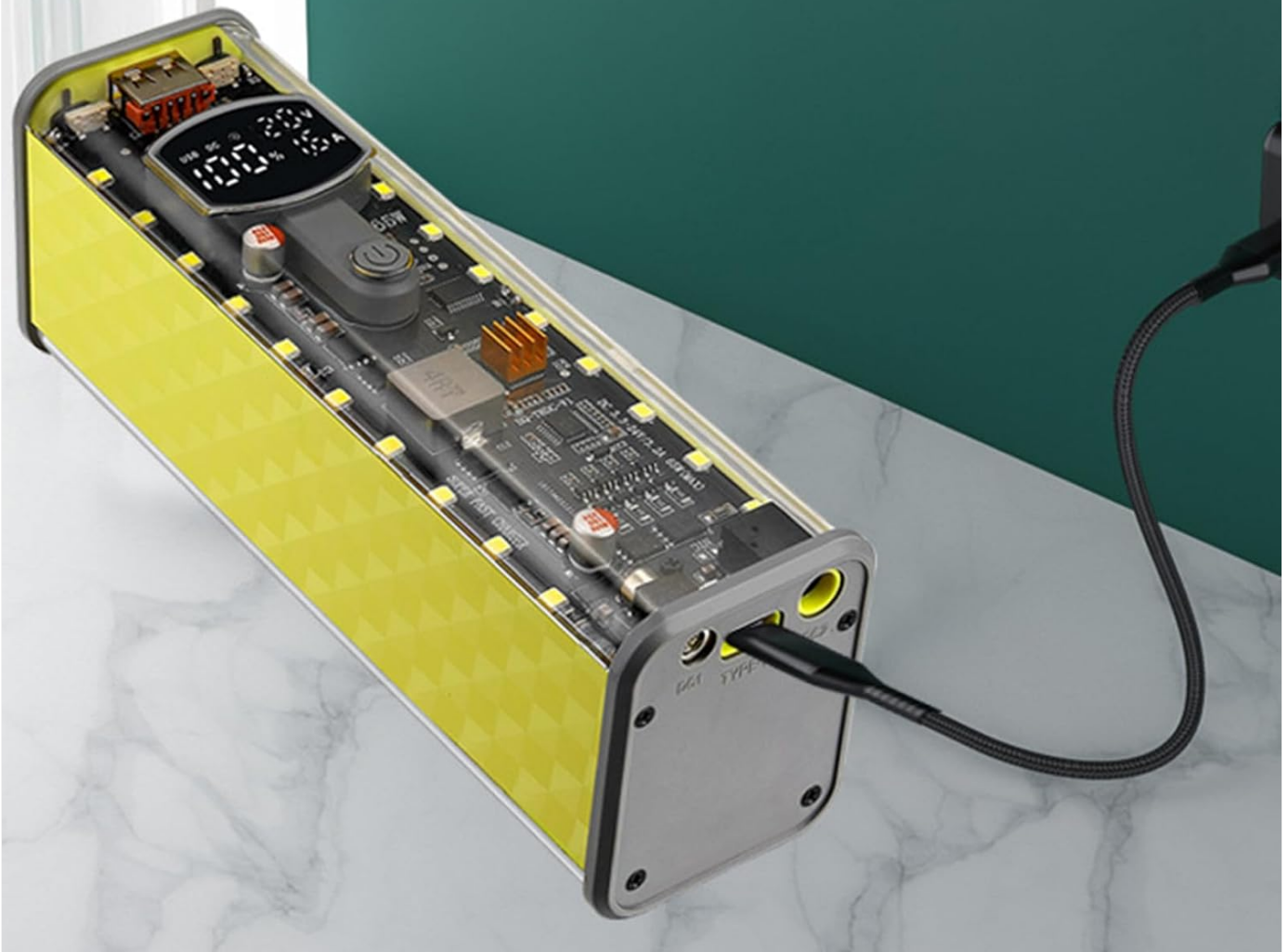


Figure 5.3: The yellow power bank kit in use, demonstrating its connection to an external device for power output via a DC port.

5.4 LED Light Mode

- Double-click the designated button (refer to Figure 5.1) to enter or exit the LED light mode.
- Click the button again to cycle through different LED light modes or brightness levels.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the power bank. Do not use liquid cleaners or solvents.
- **Storage:** Store the power bank in a cool, dry place when not in use. If storing for extended periods, remove the 18650 batteries.
- **Battery Replacement:** The tool-free design allows for easy battery replacement. Always ensure correct polarity when replacing batteries.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Power bank does not turn on/display is off.	Batteries are not installed or are drained. Incorrect battery polarity.	Ensure 18650 batteries are installed correctly with proper polarity. Charge the power bank.
Display not showing complete information.	Possible manufacturing defect or damage.	Contact customer support for assistance.
Device not charging or charging slowly.	Incompatible cable/charger. Multiple ports in use. Device not supporting fast charging.	Use an E-Mark certified USB-C cable and a PD3.1 compatible charger. Use a single output port for maximum speed. Check device compatibility.
DC output not working or voltage not adjusting.	Not in DC mode. Incorrect button operation.	Long press the designated button to enter DC mode. Follow instructions for voltage adjustment.
Power bank gets hot during use/charging.	Normal operation under heavy load. Overload or internal issue.	Slight warmth is normal. If excessively hot, disconnect immediately and contact support. Ensure proper ventilation.

8. SPECIFICATIONS

- **Product Name:** 65W PD 3.1 DIY Power Bank Kit
- **Battery Type:** 8x 18650 Flat-top Lithium-ion (not included)
- **USB-C Input/Output:** Up to 65W (PD3.1, QC3+, UFCS compatible)
- **Adjustable DC Output:** 3.3-24V (via DC5.5×2.1 and DC3.8×1.35 ports)
- **Multi-Port Simultaneous Output:** Limited to 5V
- **Protection Features:** Over-charge, Over-discharge, Over-heat, Short-circuit protection
- **Assembly:** Tool-Free Snap-on
- **Dimensions:** Approximately 160mm x 57mm x 46mm (6.30in x 2.24in x 1.81in)

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This product comes with a manufacturer warranty for 90 days from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or incorrect battery installation.

9.2 Customer Support

For technical support, troubleshooting assistance, or warranty inquiries, please contact your retailer or the manufacturer directly. Refer to the product packaging or purchase documentation for contact details.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question