

CUKTECH NO.20 (P23)

CUKTECH NO.20 140W Power Bank User Manual

Model: P23

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation of your CUKTECH NO.20 140W Power Bank. Please read this manual thoroughly before using the product and retain it for future reference.

The CUKTECH NO.20 is a high-capacity portable charger designed to provide fast and reliable power to a wide range of electronic devices, including laptops, smartphones, and tablets. With its 25,000mAh capacity and 140W output, it is an ideal companion for travel, outdoor work, and daily use.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage to the device or injury, please observe the following safety precautions:

- Do not expose the power bank to extreme temperatures (above 60°C/140°F or below 0°C/32°F), direct sunlight, or high humidity.
- Avoid dropping, impacting, or disassembling the device. Unauthorized repairs or modifications will void the warranty and may cause harm.
- Keep the power bank away from water, flammable liquids, and corrosive materials.
- Use only certified charging cables and adapters compatible with the power bank's specifications.
- Do not operate the power bank if it has been damaged in any way.
- Keep out of reach of children.
- The power bank meets safety certifications such as UL, CE, CB, and FCC, ensuring a safer charging experience.
- The 90Wh capacity meets TSA requirements (<100Wh) for carry-on luggage on airplanes.



Figure 2.1: Diagram illustrating the multi-layer safety protection features of the CUKTECH NO.20 Power Bank, including temperature, short circuit, input overcurrent, input overvoltage, output overvoltage, overcurrent and short circuit, output overcurrent, and overcharge and overdischarge protection.

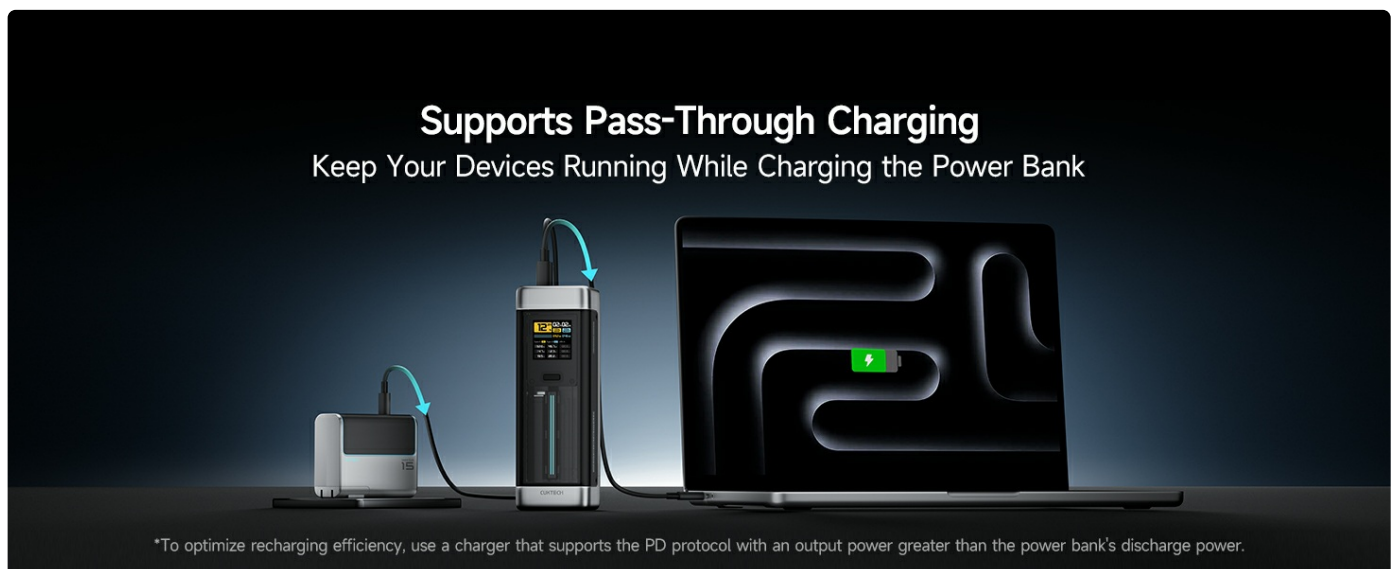


Figure 2.2: Visual representation of the enhanced safe protection system, highlighting the internal temperature monitoring mechanism that checks temperature 180,000 times per hour to prevent overheating.

3. PRODUCT OVERVIEW

The CUKTECH NO.20 Power Bank features a robust design with advanced charging capabilities. Key components include:

- **Ports:** Two USB Type-C ports (Type-C1, Type-C2) and one USB-A port (USB-A).
- **Display:** An intuitive 1.54" TFT Smart Display for real-time information.
- **Battery:** 25,000mAh (90Wh) Auto-Grade battery with over 1000 charge cycles.
- **Output:** Up to 140W max output (PD3.1 compliant).
- **Input:** Up to 100W fast self-charging input.



Figure 3.1: The CUKTECH NO.20 Power Bank, showcasing its sleek design and the included USB-C to USB-C charging cable.

1.54" TFT Smart Display

Visually Displays Power Status

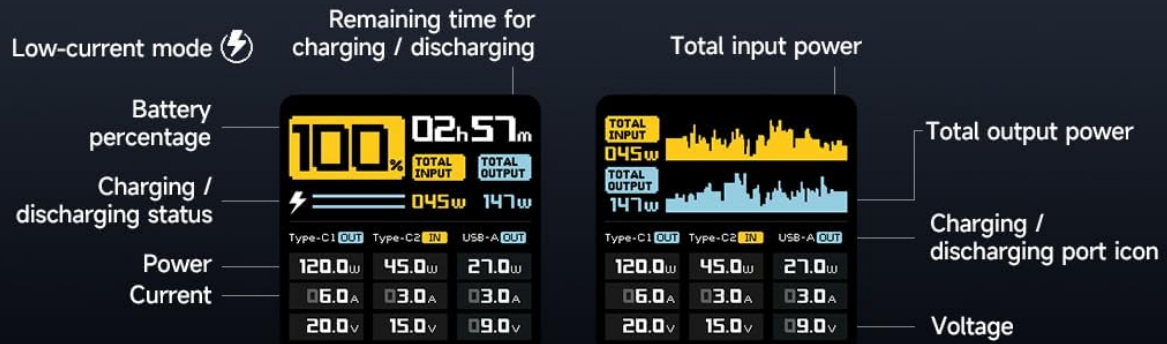


Figure 3.2: Close-up view of the 1.54" TFT Smart Display, which provides real-time information such as battery level, power, voltage, and current for each port.

Power 3 Devices Simultaneously

Supports Fast Charging for Multiple Devices



Figure 3.3: The power bank connected to and simultaneously charging a laptop, a smartphone, and a tablet, demonstrating its multi-device charging capability.

Your browser does not support the video tag.

Video 3.1: An official product video from CUKTECH Direct showcasing the 25000mAh Premium Power Bank's fast charging capabilities and design.

4. SETUP

Before first use, it is recommended to fully charge your CUKTECH NO.20 Power Bank.

1. **Initial Charge:** Connect the power bank to a power adapter (preferably 100W or higher for fastest charging) using the provided USB-C to USB-C cable.
2. The TFT display will show the charging status, including battery percentage and estimated time to full charge.
3. A full charge typically takes around 2 hours with a 100W input.

100W Fast Self-Charge

100W



20 minutes to charge to 38%
Extends Up to 30 Hours of Video Playback for iPhone 16.

*To Achieve 100W Self-Charging, a 100W or Higher Charger that Supports the PD Protocol Is Required.
*Data from Apple official website. Actual results may vary.

Figure 4.1: The power bank being recharged, illustrating its 100W fast self-charging capability, which can boost the charge by 40% in just

5. OPERATING INSTRUCTIONS

The CUKTECH NO.20 Power Bank offers versatile charging options for various devices.

5.1 Charging Your Devices

Connect your device to the appropriate port using a compatible charging cable.

- **Single-Port Charging:**

- Type-C1: Up to 140W Max
- Type-C2: Up to 45W Max
- USB-A: Up to 18W Max

- **Dual-Port Charging:**

- Type-C1 + Type-C2: 65W Max + 45W Max
- Type-C1 + USB-A: 65W Max + 18W Max
- Type-C2 + USB-A: 65W Max + 18W Max

- **Triple-Port Charging:**

- Type-C1 + Type-C2 + USB-A: 65W Max + 45W Max + 18W Max



Figure 5.1: Overview of maximum power output when using a single port for charging.

Enhanced Safe Protection

Prevent Overheating & Extended Output Time

Monitors Temperature

180,000

Times Per Hour

*Heat during high-power output is normal and within a controlled range.



Figure 5.2: Overview of power distribution when using two ports simultaneously for charging.

Multi Layer Safety Protection



Temperature Protection



Short Circuit Protection



Reset Protection



Input Overcurrent Protection



Input Overvoltage Protection



Output Overvoltage Protection



Overcurrent and Short Circuit Protection



Output Overcurrent Protection



Overcharge and Overdischarge Protection



Figure 5.3: Overview of power distribution when using all three ports simultaneously for charging.

5.2 Recharging the Power Bank

To recharge the power bank, connect a power adapter to either of the USB Type-C input/output ports (Type-C1 or Type-C2). The power bank supports up to 100W input for rapid recharging.

100W Fast Self-Charge

100W



20 minutes to charge to 38%

Extends Up to 30 Hours of Video Playback for iPhone 16.



*To Achieve 100W Self-Charging, a 100W or Higher Charger that Supports the PD Protocol Is Required.

*Data from Apple official website. Actual results may vary.

Figure 5.4: The CUKTECH NO.20 Power Bank connected to a power source for recharging.

5.3 Understanding the TFT Display

The 1.54" TFT display provides comprehensive real-time information about the power bank's status:

- **Battery Percentage:** Shows the current charge level.
- **Remaining Time:** Estimates the time until full charge (when charging) or depletion (when discharging).
- **Total Input/Output Power:** Displays the total wattage being drawn or supplied.

- **Port-Specific Data:** Shows voltage, current, and power for each active Type-C and USB-A port.
- **Charging/Discharging Status:** Indicated by icons and light bar.

1.54" TFT Smart Display

Visually Displays Power Status

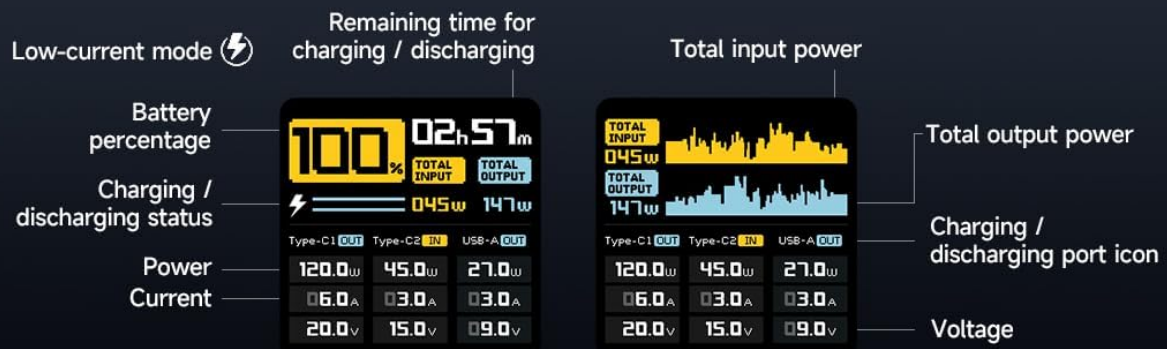


Figure 5.5: The TFT display showing detailed power metrics for input and output, including voltage, current, and wattage for each port.

5.4 Pass-Through Charging

The CUKTECH NO.20 supports pass-through charging, allowing you to charge connected devices while the power bank itself is being recharged. This feature ensures your devices remain powered even when the power bank is low.

Supports Pass-Through Charging

Keep Your Devices Running While
Charging the Power Bank



*To optimize recharging efficiency, use a charger that supports the PD protocol with an output power greater than the power bank's discharge power.

Figure 5.6: Illustration of the power bank simultaneously charging a laptop while being recharged itself, demonstrating pass-through charging.

6. MAINTENANCE

Proper maintenance extends the lifespan of your power bank.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the power bank. Do not use liquid cleaners or aerosols.

- **Storage:** Store the power bank in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, it is recommended to keep the battery at approximately 50-70% charge.
- **Battery Care:** The Auto-Grade battery is designed for over 1000 charge cycles, maintaining over 70% capacity. Avoid fully discharging the battery frequently to maximize its lifespan.



Figure 6.1: Internal view highlighting the automotive-grade power cells, designed for over 1000 charge cycles while retaining at least 70% of their original capacity.

7. TROUBLESHOOTING

If you encounter issues with your CUKTECH NO.20 Power Bank, refer to the following common solutions:

Problem	Possible Cause	Solution
Power bank not charging	Cable or adapter issue; power bank fully charged; internal fault.	Try a different cable and power adapter. Ensure the adapter meets the required wattage. If the issue persists, contact customer support.
Devices not charging or slow charging	Incompatible cable; device not properly connected; power bank low on charge; device requires higher power than port provides.	Ensure cables are securely connected. Check power bank charge level. Use appropriate ports for high-power devices (e.g., Type-C1 for 140W). Try a different cable.
TFT display not working	Device is off; display setting; internal issue.	Press the power button to activate the display. If the display remains off, contact customer support.

For issues not covered here, please contact CUKTECH customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	P23
Product Dimensions	6.3 x 2.17 x 2.17 inches
Item Weight	1.4 pounds

Feature	Detail
Battery Capacity	25000 Milliamp Hours (90Wh)
Connector Type	USB Type C, USB Type A
Special Features	Fast Charging, TFT Display, Pass-Through Charging
Color	Grey
Manufacturer	NanJing CUKTECH Electronics Technology Co., Ltd.
Country of Origin	China

9. WARRANTY AND SUPPORT

CUKTECH is committed to providing high-quality products and excellent customer service.

- **Warranty:** Your CUKTECH NO.20 Power Bank comes with an 18-month worry-free service against manufacturing defects.
- **Customer Support:** For any inquiries, technical assistance, or warranty claims, please reach out to our dedicated customer service team.
- **Contact:** service@cuktech.com

Service Support

 **24/7 Customer Support**
Always here to assist you

 **18-Month Warranty**
Against Manufacturing Defects

 **After-Sales Support Mailbox**
Reach us at service@cuktech.com

Figure 9.1: CUKTECH service support details, including 24/7 customer support, 18-month warranty, and after-sales support email.

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