

TOPWARP TP225-2W

TOPWARP 20000mAh PD 22.5W Portable Charger Instruction Manual

Model: TP225-2W

1. INTRODUCTION

Thank you for choosing the TOPWARP 20000mAh PD 22.5W Portable Charger. This manual provides essential information for the safe and efficient use of your device. Please read it thoroughly before operation and retain it for future reference.

This portable charger is designed to provide reliable and fast charging for a wide range of electronic devices, featuring a high-capacity battery, multiple output options, and advanced safety protections.



Image 1.1: Overview of the TOPWARP 20000mAh Portable Charger highlighting its key features.

2. PRODUCT OVERVIEW

2.1 Package Contents

- TOPWARP 20000mAh Portable Charger (Model TP225-2W) x 1
- User Manual x 1

2.2 Device Features

- **High Capacity:** 20000mAh battery for extended power.
- **Fast Charging:** PD 22.5W output and input, QC3.0 20W output for rapid device charging.
- **Integrated Cables:** Built-in Type-C and Lightning output cables for convenience.
- **Multiple Outputs:** Supports charging up to five devices simultaneously.
- **Digital LED Display:** Clear indication of remaining battery percentage.
- **Universal Compatibility:** Compatible with a wide range of smartphones, tablets, and other electronic devices.
- **Advanced Safety:** Comprehensive protection against overcharge, over-discharge, overvoltage, overcurrent, short-circuit, over-power, recovery, electromagnetic field, and temperature issues.

2.3 Component Identification



Image 2.1: Front and back view of the portable charger.

Image 2.2: Labeled ports and built-in cables on the portable charger.

The portable charger features:

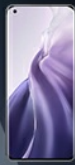
- **LED Digital Display:** Shows the battery percentage.
- **Built-in Lightning Cable:** For Apple devices.
- **Built-in Type-C Cable:** For USB-C devices.
- **USB-A Output Port:** For connecting external USB-A cables.
- **Type-C Input/Output Port:** For charging the power bank or charging devices with an external Type-C cable.
- **Type-C Input Port:** Dedicated port for charging the power bank.

Wide Compatibility with Most Devices

- Smart phones



iPhone



Samsung



Huawei



Xiaomi



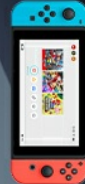
OPPO

MORE...

- Tablets&Others



Pad



Switch



HomePod



Watch



Air Pods



Image 2.3: Wide compatibility with various electronic devices.

3. SETUP

3.1 Initial Charging

Before first use, it is recommended to fully charge the portable charger. Connect the power bank to a power source using a compatible USB-C cable and a wall adapter. The LED display will show the charging progress, indicating 100% when fully charged.



Image 3.1: Recharging the portable charger.

A full recharge typically takes 6-7 hours using a PD 22.5W compatible charger.

4. OPERATING INSTRUCTIONS

4.1 Charging the Portable Charger

1. Connect a USB-C charging cable to one of the Type-C input ports on the portable charger.
2. Connect the other end of the cable to a compatible wall adapter or power source.
3. The LED display will illuminate and show the current battery percentage, indicating that charging has begun.
4. Once the display shows 100%, the portable charger is fully charged and ready for use.

4.2 Charging Your Devices

The portable charger offers multiple ways to charge your devices:

- **Using Built-in Cables:**
Extend the built-in Lightning cable for Apple devices or the built-in Type-C cable for USB-C devices. Plug the appropriate cable directly into your device's charging port.
- **Using External Cables:**
Connect your device's charging cable to the USB-A output port or the Type-C input/output port on the portable charger.



Image 4.1: Charging multiple devices simultaneously.

The portable charger supports fast charging protocols including PD 22.5W and QC3.0 20W, automatically detecting and delivering the optimal charging speed for your connected device.



Image 4.2: Fast charging capabilities.



Image 4.3: Bi-directional super fast charging with built-in cable.

4.3 LED Display

The digital LED display shows the remaining battery percentage of the portable charger. This allows you to monitor the power level and recharge the unit as needed.

5. SAFETY INFORMATION

The TOPWARP portable charger is equipped with multiple safety features to protect both the device and your connected electronics.



Image 5.1: Nine levels of circuit safety protection.

5.1 Safety Protections

- **Overcharge Protection:** Prevents battery damage from excessive charging.
- **Over-discharge Protection:** Protects the battery from being fully depleted.
- **Overvoltage Protection:** Safeguards against voltage surges.
- **Short-circuit Protection:** Automatically cuts power in case of a short circuit.
- **Overcurrent Protection:** Prevents damage from excessive current flow.
- **Over-power Protection:** Manages power output to prevent overload.
- **Recovery Protection:** Ensures safe recovery after protection activation.
- **Electromagnetic Field Protection:** Shields against electromagnetic interference.
- **Temperature Protection:** Monitors and regulates internal temperature to prevent overheating.

5.2 General Safety Guidelines

- Do not expose the device to water, moisture, or extreme temperatures.
- Avoid dropping, disassembling, or attempting to repair the device yourself.
- Keep out of reach of children.
- Use only compatible charging cables and adapters.
- Do not store the device in direct sunlight or in hot environments.

5.3 Aviation Compliance

This portable charger is compliant with aviation regulations, making it suitable for travel. Always check with your airline for specific carry-on policies regarding portable power banks.

 **BUILT-IN LINE**

Accompanying you on a trip

Accompany you on your travels with easy boarding



Image 5.2: Aviation compliance for travel.

6. SPECIFICATIONS



Image 6.1: Product dimensions.

Feature	Specification
Model Number	TP225-2W
Battery Capacity	20000mAh

Feature	Specification
Type-C Input	5V/3A, 9V/2.2A, 12V/1.6A
Type-C Output	5V/3A, 9V/2.2A, 12V/1.6A
USB-A Output	5V/3A, 9V/2A, 12V/1.5A
Lightning Output	5V/2.4A, 9V/2.2A, 12V/1.6A
Product Dimensions	5.8 x 2.68 x 1.2 inches (148.2 x 68.1 x 31.7 mm)
Item Weight	14.4 ounces
Material	PC+ABS
Color	Space Grey

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the surface of the power bank. Do not use liquid cleaners or abrasive materials.
- **Storage:** Store the power bank in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, charge the power bank to approximately 50-75% every three months to maintain battery health.
- **Cable Care:** Handle the built-in cables gently. Avoid excessive bending or pulling to prevent damage.

8. TROUBLESHOOTING

- **Device not charging:**
 - Ensure the power bank has sufficient charge (check LED display).
 - Verify that the charging cable is securely connected to both the power bank and your device.
 - Try a different cable or port on the power bank.
 - Ensure your device is compatible with the power bank's output specifications.
- **Power bank not charging:**
 - Ensure the charging cable is securely connected to the power bank's input port and the wall adapter.
 - Try a different wall adapter or power source.
 - Ensure the wall adapter provides sufficient power (e.g., 5V/2A or higher for faster charging).
- **Slow charging:**
 - Ensure both the power bank and your device support fast charging protocols (PD, QC3.0).
 - Use a high-quality, fast-charging compatible cable.
 - Avoid charging multiple devices simultaneously if you require maximum speed for one device.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact TOPWARP customer service through the retailer where the product was purchased. Please have your model number (TP225-2W) and purchase details ready when contacting support.

