TOPADRE RCE-24001

TOPADRE 240W USB C Charger 6-Port GaN Desktop Fast Charging Station User Manual

Model: RCE-24001

1. Introduction

Welcome to the user manual for your TOPADRE 240W USB C Charger 6-Port GaN Desktop Fast Charging Station. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device. Please read it thoroughly to ensure optimal performance and safety.

2. Product Overview

The TOPADRE 240W GaN Charger is a high-performance desktop charging station designed for efficient power delivery to multiple devices simultaneously. It features advanced Gallium Nitride (GaN) technology for a compact yet powerful design, along with a digital display for real-time power monitoring.



Figure 2.1: The TOPADRE 240W USB C Charger with its detachable base.

Key Features:

- **6-Port Design:** Four USB-C ports and two USB-A ports for versatile charging.
- **High Power Output:** Up to 240W total power, with USB-C1 delivering up to 140W (PD3.1).
- **GaN Technology:** Ensures high efficiency and a compact form factor.
- **Digital LED Display:** Provides real-time monitoring of charging status.
- **Comprehensive Safety:** Built-in protection against overcharging, overcurrent, overvoltage, and short circuits.



Figure 2.2: Close-up of the charger's ports and digital LED display.

3. Package Contents

Verify that all items are present in your package:

- 1 x TOPADRE 240W Charger Station
- 1 x AC Power Cord
- 1 x Base Bracket
- 1 x 100W USB C Cable

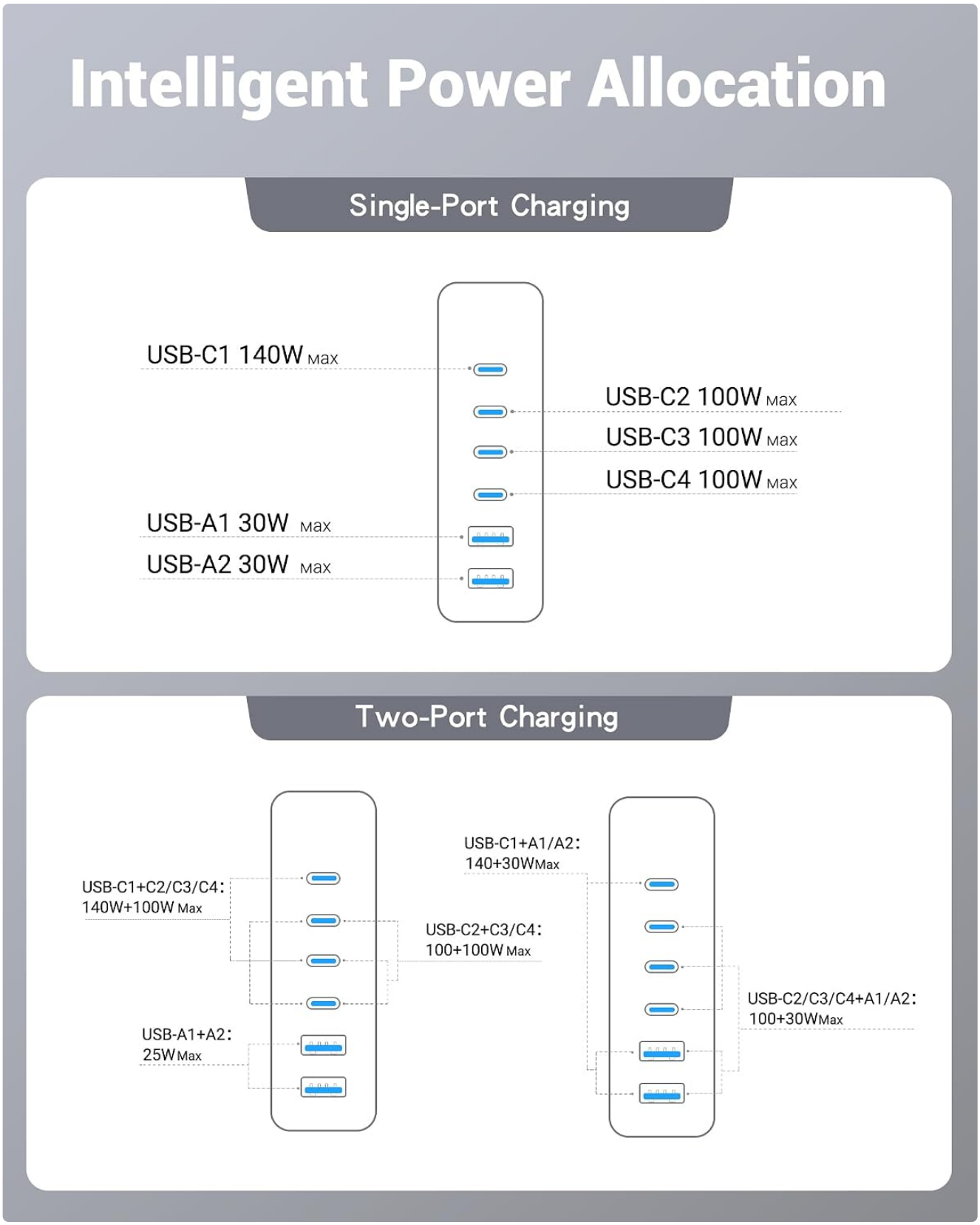


Figure 3.1: Included accessories with the TOPADRE 240W Charger.

4. Setup Instructions

Follow these steps to set up your charging station:

1. **Attach the Base Bracket:** Gently slide the charging station onto the provided base bracket until it clicks securely into place. The base provides stability and aids in heat dissipation.
2. **Connect the AC Power Cord:** Insert one end of the AC power cord into the power input port on the back of the charging station. Plug the other end into a standard wall outlet.

3. **Power On:** The LED display will illuminate, indicating the charger is powered on and ready for use.

Video 4.1: An overview video demonstrating the key features of the TOPADRE 240W USB C Charger, including its 6-port design, LED display, GaN technology, and multi-device charging capabilities.

5. Operating Instructions

Connecting Devices:

Use appropriate USB-C or USB-A cables to connect your devices to the corresponding ports on the charging station. For optimal fast charging, ensure your cables support the required wattage (e.g., a 140W cable for 140W output from USB-C1).

Understanding the LED Display:

The integrated digital LED display shows the real-time power output (in Watts) being delivered by the charger. This allows you to monitor the charging status of your connected devices.

Charging Modes and Power Allocation:

The charger intelligently allocates power based on the connected devices and their power requirements. Below are typical power outputs:

- **USB-C1:** Up to 140W Max (PD3.1) when used alone.
- **USB-C2/C3/C4:** Up to 100W Max each when used alone.
- **USB-A1/A2:** Up to 30W Max each when used alone.

When multiple ports are in use, the power is distributed. For example:

- **C1 + C2:** 140W + 100W Max
- **C1 + C2 + C3:** 100W + 95W + 45W Max
- **All 6 Ports:** Power is dynamically allocated, with a total output of 240W.



Figure 5.1: Intelligent Power Allocation for various charging scenarios.



Figure 5.2: Multiple devices charging simultaneously.

6. Compatibility

The TOPADRE 240W charger offers broad compatibility with a wide range of devices and charging protocols:

Supported Protocols:

- PD3.1, QC5.0, QC4.0, PPS, SCP, FCP, AFC, PE+

Compatible Devices:

- **Laptops:** MacBook Pro (16"/15"/13"), MacBook Air (13"/11"), Dell XPS, Chromebook, ASUS, Lenovo, FUJITSU, HP, TOSHIBA, Surface Pro, Google Pixelbook.
- **Tablets:** iPad Pro, iPad, Galaxy Tab S9/S8, Kindle Fire HD 10.
- **Smartphones:** iPhone (17/16/15/14/13/12/11/XS/XR/X/8/7 series), Samsung Galaxy (S24/S23/S22/S21/S20 series), Google Pixel, HTC, LG, Motorola, Sony.
- **Other Devices:** Nintendo Switch, Steam Deck, ASUS ROG Ally, AirPods, Drones, and more.



Figure 6.1: Universal compatibility with a wide range of electronic devices.

7. Safety Features and Guidelines

Your TOPADRE 240W charger is equipped with multiple safety features to protect your devices and ensure safe operation:

- **Advanced GaN Technology:** Enhances efficiency and reduces heat generation.
- **Overcurrent Protection:** Prevents damage from excessive current flow.
- **Short Circuit Protection:** Automatically cuts power in case of a short circuit.
- **Overvoltage Protection:** Safeguards against voltage spikes.
- **Overcharge Protection:** Protects batteries from being overcharged.
- **Thermal Management:** Proprietary system to maintain optimal operating temperature and prevent overheating.

The charger operates quietly, typically below 40dB, making it suitable for overnight charging without disturbance.



Figure 7.1: GaN II Technology and Multi-Protection System.

8. Maintenance

To ensure the longevity and proper functioning of your charging station, follow these maintenance guidelines:

- **Cleaning:** Disconnect the charger from the power outlet before cleaning. Use a soft, dry cloth to wipe the surface. Avoid using liquid cleaners or abrasive materials.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Avoid bending or crimping the power cord and USB cables excessively. Always grasp the plug,

not the cable, when disconnecting.

- **Ventilation:** Ensure the charger has adequate ventilation during use. Do not cover it with cloths or place it in enclosed spaces that could restrict airflow.

9. Troubleshooting

If you encounter issues with your TOPADRE 240W charger, refer to the following common problems and solutions:

Issue: Device is not charging.

- **Solution 1:** Ensure the AC power cord is securely plugged into both the charger and the wall outlet.
- **Solution 2:** Verify that the USB cable is properly connected to both the charger port and your device.
- **Solution 3:** Try a different USB cable. Damaged or incompatible cables can prevent charging.
- **Solution 4:** Test the device with a different charger to confirm the issue is not with the device itself.

Issue: Device is charging slowly.

- **Solution 1:** Ensure you are using a high-quality cable that supports fast charging protocols (e.g., PD3.1 for 140W output).
- **Solution 2:** Check the power requirements of your device. Some devices require specific wattage for optimal fast charging.
- **Solution 3:** If multiple devices are connected, the power is shared. Disconnecting less critical devices may increase charging speed for priority devices.
- **Solution 4:** Ensure the charger is not overheating. Excessive heat can reduce charging efficiency.

If these solutions do not resolve the issue, please contact customer support.

10. Specifications

Feature	Detail
Model Number	RCE-24001
Total USB Ports	6 (4x USB-C, 2x USB-A)
Max Output (USB-C1)	140W (PD3.1)
Max Output (USB-C2/C3/C4)	100W each
Max Output (USB-A1/A2)	30W each
Input Voltage	100-240V (Wide Voltage)
Amperage	3.5 Amps
Special Features	Charging Indicator, Fast Charging, Short Circuit Protection, GaN Technology
Color	Black
Item Weight	1.85 pounds
Package Dimensions	7.8 x 6.34 x 2.05 inches

11. Warranty and Support

The TOPADRE 240W USB C Charger is backed by a **24-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable performance.

For technical support, warranty claims, or any questions regarding your product, please contact TOPADRE customer service through the retailer where you purchased the product or visit the official TOPADRE website for contact information.

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.

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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