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CUKTECH AD1404US

CUKTECH 15 140W 4-Port GaN USB-C Charger Instruction Manual

Model: AD1404US

1. PRODUCT OVERVIEW

The CUKTECH 15 is a high-performance 140W GaN USB-C charger designed for efficient and fast charging of multiple devices simultaneously. It features a compact, foldable design and advanced safety mechanisms.



Image: The CUKTECH 15 140W 4-Port GaN USB-C Charger, showcasing its compact design and the included USB-C to USB-C cable.

2. PACKAGE CONTENTS

- CUKTECH 15 140W 4-Port GaN USB-C Charger (Model: AD1404US)
- 240W USB-C to USB-C Cable (4.9 ft / 1.5 m)
- Instruction Manual

240W USB-C Cable Included

240W

6A

PD3.1

4.92ft

240W



Image: A close-up of the included 240W USB-C cable, highlighting its 6A current capacity and PD3.1 support.

3. SETUP INSTRUCTIONS

3.1 Connecting to a Power Outlet

1. Unfold the AC prongs from the charger body.
2. Insert the charger into a standard wall outlet (100-240V AC).

Compact Design

Higher Efficiency, Smaller Size

20%
Smaller



Foldable Plug



*The product being compared is the Apple 140W original charger.

Image: The CUKTECH 15 charger with its foldable plug extended, illustrating its compact dimensions compared to a standard 140W charger.

3.2 Connecting Devices

The CUKTECH 15 features three USB-C ports and one USB-A port. Use appropriate cables for your devices.

- For optimal fast charging, use the included 240W USB-C cable or other certified PD3.1 compatible cables.

- Connect your device's charging cable to one of the available ports on the charger.
- The charger will automatically detect the connected device and deliver the optimal charging power.

4. OPERATING INSTRUCTIONS

4.1 Single Port Fast Charging (PD3.1 140W)

When a single device is connected to a USB-C port (C1 or C2), the charger can deliver up to 140W of power, enabling ultra-fast charging for compatible laptops.

Dual-140W Fast Charging

Single USB-C Port Delivers 140W Max Fast Charge



140W MAX



MacBook Pro 16 (M3)

Approximately 30 minutes to charge to 56%.

Image: A user charging a MacBook Pro with the CUKTECH 15 charger, illustrating the 140W maximum power delivery from a single USB-C port.

4.2 Multi-Device Charging

The CUKTECH 15 can charge up to four devices simultaneously. The intelligent power distribution system (CUKTECH-ADC2.0) dynamically adjusts output across ports based on connected devices' needs.

Multi-Port Fast Charging



Image: Visual representation of the CUKTECH 15 charging two laptops at 65W each, and another scenario showing four devices (laptop, tablet, phone, earbuds) charging simultaneously.

4.3 Advanced Safety Features

The charger incorporates the CUKTECH-ADC2.0 system for enhanced safety and reliability. This system continuously monitors temperature and adjusts power distribution to ensure a secure and efficient charging experience.

- **Temperature Protection:** Prevents overheating by monitoring internal temperatures.
- **Short Circuit Protection:** Safeguards against electrical shorts.
- **Output Overcurrent Protection:** Protects devices from excessive current.
- **Low Ripple:** Ensures stable power delivery.
- **Input Overcurrent Protection:** Protects the charger from excessive input current.
- **Input Overvoltage Protection:** Shields against high input voltage.
- **Low Electromagnetic Interference:** Minimizes interference with other electronics.
- **Electrostatic Resistance:** Provides protection against electrostatic discharge.

Advanced GaN Technology

Efficient Heat Dissipation



Temperature Protection



Short Circuit Protection



Output Overcurrent Protection



Low Ripple



Input Overcurrent Protection



Input Overvoltage Protection



Low Electromagnetic Interference



Electrostatic Resistance



Image: An infographic detailing the various protection mechanisms integrated into the CUKTECH 15 charger, including temperature, short circuit, and overcurrent protection.

Image: An exploded view of the CUKTECH 15 charger, highlighting its internal components and the system for continuous temperature monitoring.

4.4 Device Compatibility

The CUKTECH 15 is compatible with a wide range of devices supporting various fast-charging protocols (PD, PPS, QC, FCP, SCP).

- **Laptops:** MacBook Pro (16", 15", 14", 13"), MacBook Air, Dell XPS (15/13), HP Spectre, ThinkPad, Surface, and more.
- **Phones/Tablets:** iPhone 16/15 Pro/14 Pro Max/13/12 Series, Samsung Galaxy S23 Ultra/S22, iPad Pro, Pixel, and more.
- **Other Devices:** Steam Deck, Nintendo Switch, smartwatches, headphones, drones, and other USB-powered devices.

Universal Compatible

Laptops



Macbook Pro / Air



ThinkPad



DELL XPS



Surface

Phones / Tablets



iPhone Series



Samsung Series



iPad Series

Others



Switch / Legion Go
Steam deck



and more



Image: A visual guide to the universal compatibility of the CUKTECH 15 charger, listing various laptops, phones, tablets, and other gadgets it can charge.



Image: A table detailing mobile device compatibility, including brands like iPhone, Samsung, Google Pixel, OPPO, and REDMI, with their supported charging protocols and maximum power.



Image: A table detailing laptop compatibility, including brands like Apple, Microsoft, Dell, Acer, HP, Lenovo, Samsung, ASUS, and MSI, with specific models listed.

5. MAINTENANCE

- Keep the charger away from water, fire, and high temperatures.
- Avoid dropping or subjecting the charger to strong impacts.
- Clean the charger with a dry, soft cloth. Do not use liquid cleaners.
- When not in use, unplug the charger from the wall outlet and fold the prongs for storage.

6. TROUBLESHOOTING

6.1 Device Not Charging

- Ensure the charger is securely plugged into a working wall outlet.
- Verify that the charging cable is properly connected to both the charger and your device.
- Try using a different charging cable to rule out cable issues.
- Test with a different device to confirm the charger is functioning.

6.2 Slow Charging

- Ensure your device and cable support fast charging protocols (PD, PPS, QC) for optimal speeds.
- When multiple devices are connected, the total power output is shared. Disconnect less critical devices to prioritize charging for a specific device.
- Check if your device's battery is near full; charging speed naturally slows down as the battery approaches 100% to protect the battery.

6.3 Charger Feels Warm

It is normal for the charger to become warm during high-power output. The CUKTECH-ADC2.0 system continuously monitors temperature to ensure it operates within safe limits. If the charger becomes excessively hot or emits smoke, immediately unplug it and contact customer support.

7. SPECIFICATIONS

Feature	Detail
Model Number	AD1404US
Product Dimensions	3.11 x 2.56 x 1.26 inches
Item Weight	11.7 ounces
Input Voltage	100-240V AC
Total USB Ports	4 (3x USB-C, 1x USB-A)
Max Output Power	140W (USB-C single port)
Output Current	5 Amps (Max)
Material	Plastic
Special Features	Fast Charging, Lightweight Design, Multi-Device Charging, Foldable Plug

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The CUKTECH 15 140W 4-Port GaN USB-C Charger comes with a **24-month warranty** against manufacturing defects from the date of purchase.

8.2 Customer Support

For any inquiries, technical assistance, or warranty claims, please contact CUKTECH customer support:

- **24/7 Customer Support:** Available to assist you.
- **After-Sales Support Mailbox:** service@cuktech.com



Image: An infographic detailing CUKTECH's service support, including 24/7 customer support, a 24-month warranty, and the after-sales support email address.

