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Anker A121D

Anker USB-C Nano Charger (45W, Smart Display, GaN) User Manual

Model: A121D

1. Introduction

This manual provides essential information for the safe and efficient use of your Anker USB-C Nano Charger (45W, Smart Display, GaN). Please read this manual thoroughly before using the product and retain it for future reference. The Anker USB-C Nano Charger is a compact and powerful charging solution designed for a wide range of devices, including compatible iPhone and iPad models, as well as other USB-C enabled devices. It features intelligent device recognition, a smart display for real-time charging status, and advanced GaN technology for efficient and cooler operation.



Image: The Anker USB-C Nano Charger in use, providing 45W fast charging to a smartphone and laptop simultaneously on a desk.

2. Product Features

- **Intelligent Device Recognition:** The charger automatically identifies supported iPhone models (17/16/15 series) and adjusts the charging process for optimized and safe power delivery. This feature is also compatible with specific iPad Pro models (11" 2024/2023/2021/2020, 12.9" 2022/2021/2020, and 13" 2024), excluding iPhone 17e.
- **45W Fast Charging with Intelligent Power Adjustment:** Delivers up to 45W of power, dynamically adjusting output based on the battery level of the connected device. For example, an iPhone 17 Pro can reach 50% charge in approximately 20 minutes.
- **Smart Display Control:** An integrated display provides real-time charging status. Interaction is managed via touch:
  - **Single Tap:** Activates the display, scrolls through information, or interacts with options.
  - **Double Tap:** Switches between charging modes (e.g., Auto and Care).
  - **Press and Hold (2 seconds):** Rotates the screen orientation.

  The display automatically turns off after 1 minute of inactivity.
- **Extended Battery Life (TÜV Certified Protective Mode):** The protective charging mode, certified by TÜV, reduces charging temperature by approximately 5°C compared to standard 45W chargers, making it ideal for overnight charging and preserving battery health.
- **Compact and Portable Design:** The charger is significantly smaller and lighter than conventional chargers, making it highly convenient for travel and daily use.



Image: The Anker USB-C Nano Charger, displaying a sleeping icon, shown partially in a jacket pocket, highlighting its compact and portable nature.

3. Setup

1. **Unpack the Charger:** Carefully remove the Anker USB-C Nano Charger from its packaging.
2. **Connect to Power Outlet:** Plug the charger into a compatible wall power outlet (Type F – 2-pin German plug, compatible with Type C sockets). Ensure the outlet provides 240 Volts input.
3. **Connect Charging Cable:** Use a USB-C to USB-C cable (not included) to connect your device to the charger's USB-C port.

4. **Begin Charging:** Once connected, the charger will automatically detect your device and begin the charging process. The smart display will activate to show charging status.

4. Operating Instructions

4.1 Smart Display Interaction

The charger features an intuitive smart display for monitoring and controlling charging. Note that the display is not a touchscreen; interactions are based on tapping the charger's surface.



Image: Visual guide to the touch controls: one tap to activate/scroll, two taps to change mode, and a 2-second press to rotate the screen.

- **Single Tap:** Tap the charger once to activate the display, scroll through different information screens (e.g., current power, temperature), or interact with on-screen options.
- **Double Tap:** Tap the charger twice to switch between available charging modes, such as 'Auto' and 'Care'.
- **Press and Hold (2 seconds):** Press and hold the charger for two seconds to rotate the display orientation, which can be useful depending on how the charger is plugged into the outlet.

4.2 Charging Modes

The charger offers different modes to optimize charging based on your needs:

- **Auto Mode:** This is the default mode. The charger intelligently delivers the maximum safe charging speed for your device, up to 45W, adjusting power output in real-time.
- **Care Mode (Protective Charging):** Designed to extend battery lifespan, this mode reduces charging temperature by approximately 5°C. It is particularly beneficial for overnight charging, minimizing heat-induced battery degradation. Activate this mode by double-tapping the charger.

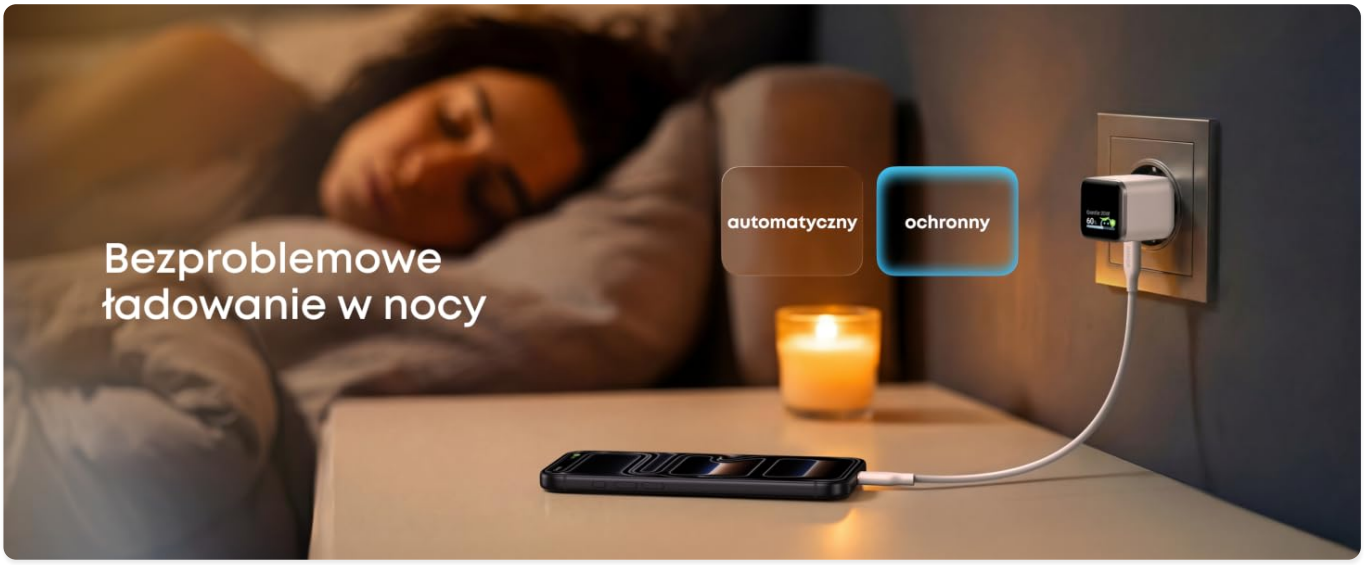


Image: The Anker USB-C Nano Charger in a bedroom setting, showing its suitability for overnight charging with both automatic and protective modes.

4.3 Charging Power Curve

The charger employs a three-stage charging process with intelligent power control to optimize charging efficiency and battery health:

- **Fast Charging (0-20%):** Delivers high power (up to 45W) to quickly boost the battery from low levels.
- **Stable Charging (20-80%):** Maintains a consistent and efficient charging rate.
- **Trickle Charging (80-100%):** Reduces power output to a lower level to complete the charge gently, preventing overcharging and extending battery life.

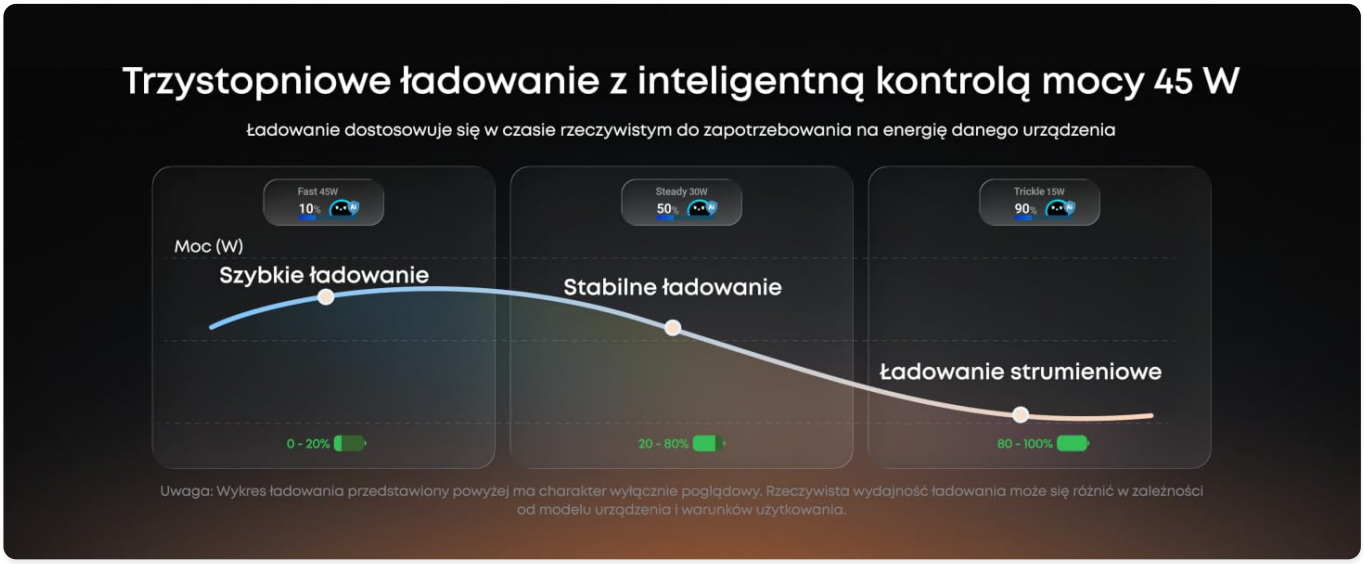


Image: A graphical representation of the charger's intelligent three-stage power delivery during the charging cycle.

5. Maintenance

- **Cleaning:** Disconnect the charger from the power outlet before cleaning. Use a soft, dry cloth to wipe the surface. Do not use liquid cleaners or aerosols.

- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the charger or subjecting it to strong impacts. Do not attempt to disassemble or modify the charger, as this will void the warranty and may cause damage.

6. Troubleshooting

- **Charger Not Working:**
  - Ensure the charger is securely plugged into a functioning wall outlet.
  - Verify that the charging cable is properly connected to both the charger and your device.
  - Try using a different USB-C cable to rule out cable issues.
  - Test the charger with a different compatible device, if available.
- **Slow Charging:**
  - Ensure your device supports fast charging and that you are using a compatible USB-C cable.
  - Check if the charger is in 'Care Mode'. Switch to 'Auto Mode' by double-tapping the charger for faster charging.
  - High device usage during charging can slow down the process. Close unnecessary applications.
- **Display Not Responding:**
  - Ensure the charger is powered on and connected to a device.
  - Try tapping the charger once to activate the display.
  - If the issue persists, disconnect and reconnect the charger from the power outlet.
- **Charger Overheating:**
  - It is normal for the charger to feel warm during operation. However, if it becomes excessively hot, disconnect it immediately.
  - Ensure adequate ventilation around the charger.
  - Consider using 'Care Mode' for cooler charging, especially during extended periods.

7. Specifications

Attribute	Value
Brand	Anker
Model Number	A121D
Connectivity Technology	USB

Attribute	Value
Connector Type	USB Type C
Total USB Ports	1
Wattage	45 W
Input Voltage	240 Volts
Input Current	2.25 Amperes
Output Voltage	20 Volts
Output Current	5 Amperes
Power Source	Corded Electric
Current Type	DC
Plug Type	Type F (2-pin German), compatible with Type C
Form Factor	Compact
Portable	Yes
Compatible Devices	iPhone 17/16/15 series, iPad Pro 11" (2024/2023/2021/2020), iPad Pro 12.9" (2022/2021/2020), iPad Pro 13" (2024), Samsung devices
Included Components	User Manual
UPC	194644321185
GTIN	194644321185



Image: A detailed compatibility chart for the Anker USB-C Nano Charger, listing various Apple and Samsung devices and their supported charging capabilities.

8. Warranty and Support

The Anker USB-C Nano Charger comes with an **18-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable performance under normal use.

For technical support, warranty claims, or any questions regarding your product, please contact Anker customer service. Refer to the contact information provided in the product packaging or visit the official Anker website for assistance.

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