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JOYROOM JR-CCN07

JOYROOM 120W 3-Port USB-C Car Charger Instruction Manual

Model: JR-CCN07 | Brand: JOYROOM

1. Introduction

Thank you for choosing the JOYROOM 120W 3-Port USB-C Car Charger. This device is designed to provide efficient and fast charging for a wide range of electronic devices in your vehicle. Please read this manual carefully to ensure proper usage and optimal performance.

2. What's in the Box

- 1x JOYROOM 120W 3-Port USB-C Car Charger (Model JR-CCN07)
- 1x 100W USB-C to USB-C Fast Charging Cable (4ft)

3. Product Overview

The JOYROOM 120W Car Charger features three independent charging ports and a robust design for reliable performance. It includes a high-speed USB-C cable for immediate use.



Image 3.1: The JOYROOM 120W 3-Port USB-C Car Charger and its included 100W USB-C cable.

3.1 Port Configuration

- **PD-1 Port (USB-C):** Up to 100W Power Delivery (PD) output, supporting QC 4.0. Ideal for laptops and high-power devices.
- **PD-2 Port (USB-C):** Up to 35W Power Delivery (PD) output. Suitable for smartphones and tablets.
- **QC 3.0 Port (USB-A):** Up to 18W Quick Charge (QC) 3.0 output. For various USB-A compatible devices.

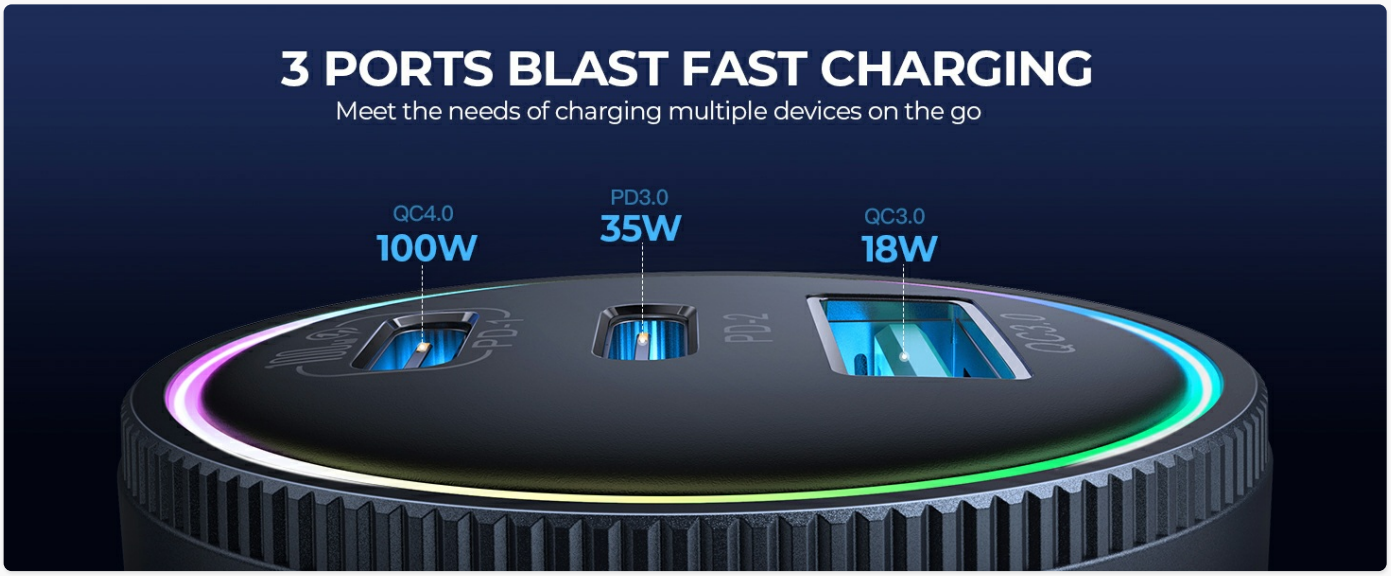


Image 3.2: Detailed view of the PD-1, PD-2, and QC 3.0 ports.

3.2 Integrated Features

- **Rainbow LED Lights:** Soft ambient lighting around the ports helps locate them in low-light conditions.
- **Advanced Heat Dissipation:** Metallic spray-painted exterior with ventilation openings ensures optimal operating temperature and durability.
- **Independent Charging Chips:** Each port is managed by a dedicated chip for stable and efficient power delivery, even when charging multiple devices simultaneously.

4. Setup

4.1 Installation

1. Ensure your vehicle's engine is off or the ignition is in the accessory position.
2. Insert the JOYROOM car charger firmly into your vehicle's 12V-24V cigarette lighter socket. The LED lights will illuminate upon successful connection.

4.2 Connecting Devices

1. Connect your device's charging cable to the appropriate port on the car charger (USB-C for PD-1/PD-2, USB-A for QC 3.0).
2. Connect the other end of the cable to your electronic device.
3. The charger will automatically detect your device and begin charging.

5. Operating Instructions

5.1 Fast Charging Protocols

The charger supports multiple fast charging protocols, including PD 3.0, QC 4.0, PPS, and QC 3.0, ensuring compatibility and optimized charging speeds for a wide range of devices.

5.2 Simultaneous Charging

The JOYROOM 120W car charger can fast charge up to three devices simultaneously without compromising charging speed for each device. For example:

- **PD-1 (100W):** Ideal for charging laptops like MacBook Pro/Air, HP Pavilion, Lenovo Notebook, Surface Pro.
- **PD-2 (35W):** Suitable for smartphones (iPhone 15/16 series, Samsung Galaxy S24/S23 series) and tablets (iPad Air/Pro/Mini).
- **QC 3.0 (18W):** For devices such as Kindle, smartwatches, drones, or Nintendo Switch.



Image 5.1: Demonstrating simultaneous charging of a laptop, smartphone, and tablet.

5.3 LED Indicator

The integrated rainbow LED lights serve as a power indicator, confirming the charger is receiving power from the vehicle's socket. They also provide soft illumination to easily locate the ports in the dark.

6. Maintenance

6.1 Cleaning

- Ensure the charger is disconnected from the vehicle's power socket before cleaning.
- Wipe the exterior with a soft, dry cloth. Do not use liquid cleaners or abrasive materials.
- Keep the charging ports free from dust and debris. Use a dry, soft brush if necessary.

6.2 Storage

When not in use for extended periods, store the charger in a cool, dry place away from direct sunlight and extreme temperatures.



Image 6.1: The charger's cooling air vent design helps maintain optimal performance.

7. Troubleshooting

7.1 Charger Not Powering On / No LED Lights

- **Check Connection:** Ensure the charger is fully and securely inserted into the vehicle's cigarette lighter socket.
- **Vehicle Power:** Verify that the vehicle's 12V-24V socket is functional. Test with another device if possible.
- **Vehicle Ignition:** Some vehicle sockets only provide power when the ignition is on.

7.2 Device Not Charging or Charging Slowly

- **Cable Check:** Ensure you are using a high-quality, compatible charging cable. The included 100W USB-C cable is recommended for optimal performance.
- **Port Selection:** Verify that you are using the correct port for your device's charging requirements (e.g., PD-1 for laptops, PD-2 for phones/tablets).
- **Device Compatibility:** Confirm your device supports the fast charging protocols offered by the charger (PD, QC).
- **Multiple Devices:** While the charger supports simultaneous fast charging, extremely power-hungry devices might experience slightly reduced speeds if all ports are heavily utilized.

7.3 Overheating

The charger is designed with advanced heat dissipation. If you notice excessive heat, disconnect the charger

immediately. Ensure there is adequate ventilation around the charger and that no foreign objects are obstructing the cooling vents.

8. Specifications

Feature	Detail
Model Number	JR-CCN07
Total USB Ports	3
Input Voltage	12V-24V DC
Total Wattage	120W (Max)
PD-1 Output (USB-C)	100W (Max) with QC 4.0
PD-2 Output (USB-C)	35W (Max) with PD 3.0
QC 3.0 Output (USB-A)	18W (Max)
Dimensions	2.76 x 1.18 x 3.54 inches
Item Weight	3.52 ounces
Included Cable	100W USB-C to USB-C (4ft)
Special Features	Buck-boost chips, Cooling Air Vent Design, Rainbow LED Lights

9. Compatibility

The JOYROOM 120W Car Charger is compatible with a wide range of devices and vehicles:

9.1 Compatible Devices

- **Laptops:** MacBook Pro/Air, HP Pavilion, Lenovo Notebook, Chromebook, Surface Pro, and other USB-C powered laptops.
- **Smartphones:** iPhone 16/15/14/13/12 series, Samsung Galaxy S25/S24/S23 series, Google Pixel 6/5/4, LG V60/V50, OnePlus, Motorola, Nokia, Sony, HTC.
- **Tablets:** iPad Pro, iPad Air, iPad Mini, and other USB-C powered tablets.
- **Other Devices:** Cameras, Kindle, Apple Watch, Drones, Nintendo Switch, car recorders, car cameras, and other USB-powered devices.

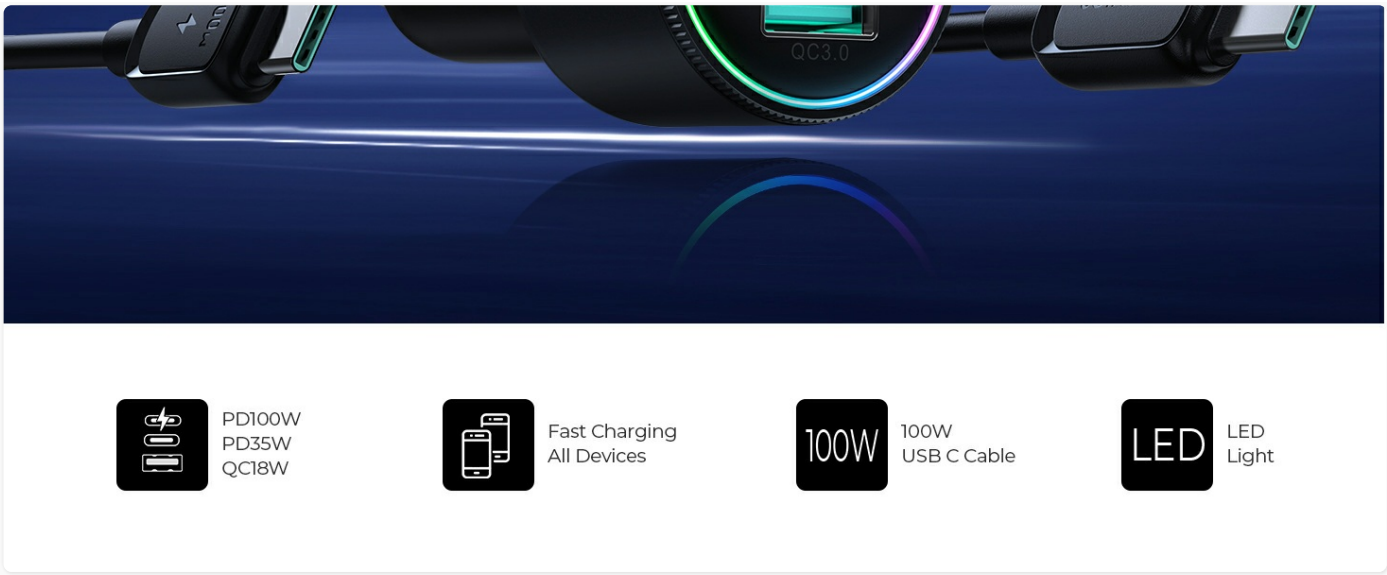


Image 9.1: Visual representation of device compatibility.

9.2 Compatible Vehicles

Works seamlessly with 12V-24V cars, trucks, and RVs.

10. Safety Information

The JOYROOM 120W Car Charger is equipped with multiple safety features and holds several certifications to ensure safe operation:

- **Certifications:** UL, CE, FCC, ROHS.
- **Protections:** Overcurrent protection, overvoltage protection, overload protection, overheat protection, and short circuit protection.

Always use the product as directed in this manual. Do not disassemble or modify the charger. Keep out of reach of children.



Image 10.1: The product adheres to international safety standards.

11. Warranty and Support

11.1 Warranty

Please refer to the product packaging or the official JOYROOM website for specific warranty details and terms.

11.2 Customer Support

For any questions, concerns, or technical assistance, please contact the professional JOYROOM service team. We are committed to helping you solve your questions within 24 hours.
Contact information can typically be found on the product packaging or the official JOYROOM website.

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