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acegoo ACE-USB-48-C

Acegoo 48W Dual Port USB Charger (Model ACE-USB-48-C) User Manual

Waterproof PD Type-C & QC3.0 USB Outlet for Vehicles

1. Introduction

Thank you for choosing the Acegoo 48W Dual Port USB Charger. This device provides fast and efficient charging for your electronic devices in various vehicles. Please read this manual carefully before installation and use to ensure proper operation and safety.

Package Contents:

- Acegoo 48W Dual Port USB Charger (2 units)
- User Manual

2. Safety Information

- Ensure the input voltage is within the specified range (12V-24V DC).
- Do not short-circuit the output terminals.
- Do not disassemble or modify the charger.
- Keep away from extreme heat, direct sunlight, and corrosive materials.
- Ensure proper polarity when connecting to the vehicle's electrical system (red wire to positive, black wire to negative).
- Disconnect power before installation or maintenance.

3. Specifications

Model	ACE-USB-48-C
Input Voltage	DC 12V-24V
USB-C PD Output	5V/3A, 9V/3A, 12V/2.5A (Max 30W)
USB-A QC3.0 Output	5V/3A, 9V/2A, 12V/1.5A (Max 18W)
Total Output	48W Max
Material	Aluminum Alloy, Plastic
Waterproof Rating	IP66 (with cover closed)
Operating Temperature	-10°C to 60°C
Dimensions	1.69"L x 1.5"W (approx.)
Weight	3.2 ounces (approx.)

4. Installation Guide

This charger is designed for plug-and-play installation. Ensure the vehicle's power is off before proceeding.

4.1 Tools Required:

- Drill (if creating a new mounting hole)
- 1-1/16 inch (27mm) hole saw or drill bit
- Wire strippers/crimpers (if extending wires)

4.2 Installation Steps:

1. **Choose Mounting Location:** Select a flat surface with sufficient space behind it for the charger body and wiring. The maximum board thickness supported is 11/16 inch.
2. **Prepare Mounting Hole:**
   If replacing an existing cigarette lighter socket or USB port, ensure the cutout diameter is approximately 1-1/16 inches (27mm). If creating a new hole, carefully drill a 1-1/16 inch (27mm) diameter hole.



Image: Diagram illustrating the required drill hole size (1-1/16 inches) and maximum board thickness (11/16 inches) for installation. The charger's overall length is 1-3/8 inches.

3. **Connect Wiring:**
    - Connect the **red wire** from the charger to the vehicle's**positive (+)** power source (e.g., battery positive, ignition-switched positive).
    - Connect the **black wire** from the charger to the vehicle's**negative (-)** ground point (e.g., chassis ground, battery negative).
    - Ensure connections are secure and insulated.

Your browser does not support the video tag.

Video: This video demonstrates the installation process of the Acegoo 48W USB outlet, including connecting the wires and securing the unit.

4. **Insert Charger:** Push the charger body into the prepared hole. The threaded body and retaining nut (if included, or built-in tabs) will secure it in place. Tighten the retaining nut if applicable, ensuring the charger is flush and stable.
5. **Test Functionality:** Reconnect the vehicle's power. Plug a compatible USB device into the charger to verify it is functioning correctly.

5. Operating Instructions

5.1 Charging Devices:

1. Open the waterproof cover by lifting the tab.
2. Connect your device's USB-C cable to the PD Type-C port for fast charging.
3. Connect your device's USB-A cable to the QC3.0 port for fast charging.
4. The charger will automatically detect your device and deliver the optimal charging current.
5. When not in use, ensure the waterproof cover is securely closed to protect the ports from dust and water.

Your browser does not support the video tag.

Video: This video demonstrates the waterproof features and charging capabilities of the Acegoo 48W USB charger, showing devices being charged.

5.2 Features:

- **Dual Fast Charging:** Simultaneously charge two devices with 30W Power Delivery (USB-C) and 18W Quick Charge 3.0 (USB-A).
- **Waterproof & Dustproof:** IP66 rated with a detachable cover for protection against elements.
- **Smart Protection:** Built-in safeguards against overvoltage, overcurrent, overheating, and short circuits.
- **No Backlight Design:** Eliminates distracting light, ideal for night driving or low-light environments.
- **Ultra-Low Power Standby:** Consumes less than 0.1W when idle to preserve vehicle battery.



Image: The Acegoo 48W USB charger installed in a boat dashboard, highlighting its waterproof and dustproof design with the cover closed.



Image: The Acegoo 48W USB charger installed in a car dashboard, demonstrating its non-illuminated design for minimal distraction.



Image: An exploded view of the Acegoo 48W USB charger, highlighting its internal smart chip for over-voltage, over-current, over-temperature, and anti-interference protection.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the charger. Do not use abrasive cleaners or solvents.
- **Waterproof Cover:** Periodically check that the waterproof cover is intact and seals properly. Replace if damaged.
- **Connections:** Ensure wiring connections remain secure and free from corrosion.
- **Storage:** If the vehicle is stored for an extended period, it is advisable to disconnect the charger from the power source to prevent any minimal power draw.

7. Troubleshooting

Problem	Possible Cause	Solution
Charger not working / No power output	• Loose wiring connection • Blown fuse in vehicle's circuit • Incorrect polarity • Vehicle power is off	• Check and secure all wire connections. • Inspect and replace any blown fuses in the vehicle's fuse box. • Verify red wire is connected to positive (+) and black to negative (-). • Ensure vehicle's ignition or accessory power is on.
Slow charging speed	• Using a non-fast charging cable • Device not compatible with fast charging protocols (PD/QC) • Device drawing more power than charger can supply	• Use a high-quality USB-C PD or USB-A QC compatible cable. • Confirm your device supports Power Delivery or Quick Charge. • Ensure the device's power requirements do not exceed the port's maximum output.
Charger gets hot	• Normal operation under heavy load • Overloaded circuit	• Slight warmth is normal during fast charging. • If excessively hot, disconnect devices and check for short circuits or faulty devices.

8. Warranty Information

Acegoo provides a **3-year manufacturer warranty** from the date of purchase against defects in materials and workmanship. This warranty does not cover damage caused by misuse, accident, unauthorized modification, or improper installation.
For warranty claims, please retain your proof of purchase and contact Acegoo customer support.

9. Customer Support

If you have any questions, concerns, or require technical assistance, please contact Acegoo customer service:

- **Website:** Visit the official Acegoo store on Amazon:Acegoo Store
- **Email:** Refer to your product packaging or the Acegoo website for direct contact information.

Please have your model number (ACE-USB-48-C) and purchase details ready when contacting support.

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