

ZEBRONICS ZEB-CC90

ZEBRONICS CC90 90 Watts Car Smartphone Charger

USER MANUAL

1. Introduction

Welcome to the user manual for the ZEBRONICS CC90 Car Smartphone Charger. This document provides comprehensive instructions for the safe and efficient use of your new car charger. The ZEB-CC90 is a versatile solution designed to meet your on-the-go charging needs, featuring dual Type-C output ports and a powerful 90W output for rapid charging of your devices.

Please read this manual carefully before using the product to ensure proper operation and to prevent damage. Keep this manual for future reference.

2. Product Overview

The ZEBRONICS CC90 is a compact and powerful car charger equipped with two Type-C Power Delivery (PD) ports. It is designed to provide fast and efficient charging for a wide range of devices, including smartphones and tablets, directly from your vehicle's power outlet.



Figure 2.1: Angled view of the ZEBRONICS CC90 Car Charger, highlighting its dual Type-C ports and sleek black design with carbon fiber pattern.

Its compact design allows for easy integration into various vehicles, while built-in protections ensure a reliable and safe charging experience.

3. Key Features

- **Compact Design:** Designed with mobility in mind, the ZEB-CC90 features a compact and lightweight build, making it ideal for installation in cars, trucks, and other vehicles.
- **High Output Power:** The ZEB-CC90 car charger delivers a powerful 90-watt output, ensuring fast charging for your devices while you're on the go.
- **Dual Type-C Output Ports:** Equipped with dual Type-C ports, the ZEB-CC90 offers exceptional versatility, allowing for the simultaneous charging of multiple devices. Its advanced Type-C interface guarantees a continuous power supply to all your devices.

- **Versatile Input and Output:** Each Type-C output supports DC 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/2.25A, enabling convenient charging of multiple Type-C compatible devices simultaneously at optimal speeds.
- **Built-in Protections:** Features comprehensive safeguards including over-current, over-voltage, over-temperature, and short circuit protection, ensuring the safety of both your devices and the vehicle's electrical system.
- **Wide Compatibility:** Designed to meet the evolving needs of both mobile phones and tablets, ensuring compatibility with a wide range of devices.



Figure 3.1: Visual representation of the dual Type-C PD outputs and their supported power delivery specifications.

4. Setup Instructions

Follow these steps to set up and begin using your ZEBRONICS CC90 Car Charger:

1. **Locate Vehicle Power Outlet:** Identify the 12V or 24V cigarette lighter socket in your car, truck, or other compatible vehicle.

2. **Insert Charger:** Firmly insert the ZEBRONICS CC90 car charger into the vehicle's power outlet. Ensure it is securely seated.
3. **Connect Devices:** Use a compatible Type-C charging cable (not included) to connect your smartphone, tablet, or other Type-C enabled device to either of the two Type-C ports on the charger.
4. **Verify Charging:** Once connected, your device should indicate that it is charging. The ZEB-CC90 features a convenient LED indicator to confirm power is supplied.



Figure 4.1: The compact design of the charger, illustrating its ease of handling and the Type-C PD ports.

For optimal fast charging, ensure your charging cables are also rated for Power Delivery (PD) and support the required wattage for your devices.

5. Operating the Charger

The ZEBRONICS CC90 operates automatically once connected to a power source and a device. Here are some operational guidelines:

- **Simultaneous Charging:** You can charge two devices concurrently using both Type-C ports. The charger intelligently distributes power based on the connected devices' requirements, up to a combined total of 90W.
- **Power Delivery (PD) Technology:** The charger utilizes Type-C PD technology to deliver optimal charging efficiency, automatically adjusting voltage and current to suit your device's needs for faster and safer charging.
- **LED Indicator:** A built-in LED indicator provides visual confirmation that the charger is receiving power and is ready to charge.



Figure 5.1: The charger in action, demonstrating its 90W maximum output capability for fast charging.

6. Care and Maintenance

To ensure the longevity and optimal performance of your ZEBRONICS CC90 Car Charger, please follow these maintenance guidelines:

- **Cleaning:** Disconnect the charger from the power outlet and any devices before cleaning. Use a soft, dry cloth to wipe

the surface. Do not use liquid cleaners or abrasive materials.

- **Storage:** When not in use, 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.
- **Safety Precautions:**
 - Do not expose the charger to water or excessive moisture.
 - Ensure proper ventilation around the charger during use.
 - The charger is equipped with built-in protections against overcurrent, overvoltage, overtemperature, and short circuits to ensure safe operation.



Figure 6.1: Visual representation of the comprehensive safety features integrated into the charger.

7. Troubleshooting

If you encounter any issues with your ZEBRONICS CC90 Car Charger, refer to the table below for common problems and

their solutions:

Problem	Possible Cause	Solution
Charger not working / No LED indicator	Not properly inserted into vehicle outlet. Vehicle power outlet is not active. Blown fuse in vehicle's power outlet.	Ensure the charger is firmly seated in the outlet. Check if the vehicle's ignition is on (if required for outlet power). Consult your vehicle's manual to check and replace the fuse for the power outlet.
Device not charging or charging slowly	Charging cable is faulty or not PD compatible. Device is not compatible with Type-C PD. High power consumption by device during charging.	Try a different, known-good Type-C PD compatible charging cable. Verify your device supports Type-C PD charging. Close background applications on your device to reduce power draw.
Charger feels warm during use	Normal operation during high power output. Poor ventilation around the charger.	Slight warmth is normal. If it becomes excessively hot, disconnect immediately. Ensure the charger is not obstructed and has adequate airflow.

8. Technical Specifications

Feature	Specification
Model Number	ZEB-CC90
Product Dimensions	3 x 8 x 12.8 cm
Item Weight	23 g
Colour	Black
Input Voltage	24 Volts
Total Wattage Output	90 Watts (Max)
Output Current (per port)	3 Amps (Max)
Connector Type	USB Type C (x2)
Special Features	Fast Charging, Power Delivery (PD), Built-in Protections
Compatible Devices	Smartphones, Tablets, and other Type-C PD compatible devices in cars/trucks.



Figure 8.1: Detailed dimensions of the ZEBRONICS CC90 Car Charger.

9. Warranty and Support

Warranty Information: Your ZEBRONICS CC90 Car Charger comes with a standard manufacturer's warranty. Please refer to the product packaging or the official ZEBRONICS website for specific warranty terms and conditions, including coverage period and claim procedures.

Customer Support: For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact ZEBRONICS customer support. You can typically find contact information (phone number, email, or support portal) on the official ZEBRONICS website or on your product packaging.

When contacting support, please have your product model number (ZEB-CC90) and purchase details ready.

