

Model: C59 | Input: 12V/24V DC | Total Power: 180W (Max 192W)

Important Safety Notice: Read all instructions before use. This device is designed for use in 12V or 24V DC automotive electrical systems only. Do not use with household AC power.

Overview

The SONRU 7-in-1 Cigarette Lighter Splitter is a multi-port power adapter for vehicles. It expands a single vehicle cigarette lighter socket into three 12V/24V sockets and four USB charging ports, allowing simultaneous power and charging for multiple devices.



Package Contents

- 1x Cigarette Lighter Splitter (with integrated 3.7ft/1.13m cable)
- 2x Spare 15A Fuses
- 1x Velcro Strip (for cable management)
- 1x User Manual (this document)

Features & Specifications

Physical Ports & Controls

- **Input:** Standard male cigarette lighter plug (12V/24V DC).
- **Output Sockets (x3):** Standard female cigarette lighter sockets. Each is controlled by an independent on/off switch.
- **USB Charging Ports (x4):**
 - **USB-A1:** 5V/2.4A (12W Standard charging)
 - **USB-A2:** QC3.0 18W Fast Charging (when used alone). Shares a chip with USB-C2.
 - **USB-C1:** PD up to 36W (Max 45W at 20V) Fast Charging.
 - **USB-C2:** PD up to 36W Fast Charging. Shares a chip with USB-A2.
- **Independent Switches (x3):** One for each cigarette lighter socket. Toggle to control power to devices plugged into those sockets individually.
- **LED Voltage Display:** Digital screen that shows the vehicle's real-time operating voltage.

Technical Specifications

Specification	Detail
Max Total Output Power	180W (Peak 192W)
Input Voltage	12V / 24V DC
Input Current	Up to 8A
Fuse Rating	15A (Replaceable, includes spares)
Cable Length	3.7 Feet (1.13 meters)
Construction	Aluminum Alloy + ABS Fireproof Material
Certifications	UL, CE, FCC, RoHS

Power Sharing Notes

- **USB-A2 and USB-C2** share a charging chip. If both are used simultaneously, the total shared output is 5V/3A (15W). For full fast charging capability, use only one of these two ports at a time.
- The power for a **single cigarette lighter socket** should not exceed 120W.

- The total combined load of all ports and sockets must not exceed 180W (192W max peak).

Use Guide

Installation

1. Ensure your vehicle is turned off or in accessory mode.
2. Insert the splitter's cigarette lighter plug firmly into your vehicle's 12V/24V power outlet (cigarette lighter socket).
3. The LED voltage display will illuminate, showing your vehicle's current voltage (e.g., 12.6V, 24.2V).
4. Use the provided Velcro strip to secure excess cable and manage wires neatly.

Using the Cigarette Lighter Sockets

1. Plug your 12V/24V device (e.g., tire inflator, car vacuum, fridge) into one of the three female sockets.
2. Press the corresponding **independent switch** next to the socket to turn the power on. The device will receive power.
3. To turn the device off, press the switch again. This eliminates the need to unplug the device.
4. Repeat for other sockets as needed. Each socket can be controlled independently.

Note: Always check the power requirements of your device. Do not plug a device that draws more than 120W into a single socket.

Using the USB Charging Ports

1. Connect your USB device (phone, tablet, camera) to the appropriate port using a compatible cable.
2. The built-in smart chip will automatically identify the device and deliver the optimal charging current.
3. For the fastest charging:
 - Use the **USB-C1** port with a USB-C to USB-C cable for compatible laptops, tablets, or phones.
 - Use the **USB-A2** port *alone* for QC3.0 compatible devices.
 - Use the **USB-C2** port *alone* for PD compatible devices.

Understanding the LED Voltage Display

- The display shows the live voltage of your vehicle's electrical system.
- **Normal Operation:** A steady reading (e.g., ~12.5V when engine off, ~14.4V when engine running for a 12V system).
- **Low Voltage Warning:** If the voltage drops below 12V (for 12V systems), the display will flash. This indicates a potentially weak battery. Consider starting the engine to charge the battery.



Safety & Maintenance

Built-in Protections

The device includes multiple safety features:

- **Overcurrent/Overload Protection:** Automatically cuts power if the draw exceeds safe limits.
- **Overvoltage/Short Circuit Protection:** Protects both the adapter and your connected devices.
- **Overheating Protection:** Reduces output or shuts down if internal temperature is too high.
- **Replaceable Fuse:** A 15A fuse protects the main circuit. Two spare fuses are included.

Replacing the Fuse

1. Unplug the splitter from the vehicle's power outlet.
2. Locate the fuse compartment on the main body of the splitter.
3. Open the compartment and remove the old fuse.
4. Insert a new 15A fuse (included). Ensure it is seated properly.

5. Close the compartment and re-test the device.

General Warnings

- Do not use with household AC power outlets (110V/220V). For automotive DC use only.
- Do not expose to water or excessive moisture.
- Do not cover the device during operation to allow for proper heat dissipation.
- Periodically check the plug, cable, and housing for damage. Do not use if damaged.
- Ensure the total power consumption of all connected devices does not exceed 180W.



Compatibility

Compatible Vehicles

All standard 12V or 24V DC vehicles with a cigarette lighter/power outlet, including:

- Cars, SUVs, Trucks
- Vans, MPVs, RVs
- Off-road Vehicles

Compatible Devices (Examples)

- **Via Cigarette Lighter Sockets:** Car refrigerators, tire inflators, air compressors, vacuum cleaners, portable fans, GPS units, dash cams, FM transmitters.
- **Via USB Ports:**
 - **Phones:** iPhone, Samsung Galaxy, Google Pixel, Huawei, Xiaomi, LG, Sony, and most Android phones.
 - **Tablets & Laptops:** iPad, MacBook, Windows laptops with USB-C charging.

- **Other:** Nintendo Switch, Kindle, Bluetooth headphones, action cameras, power banks.



Troubleshooting

Problem	Possible Cause & Solution
No power to any port (LED display off).	Vehicle outlet may be dead. Try another outlet. Ensure the plug is fully inserted. Check and replace the main fuse if blown.
Specific cigarette lighter socket has no power.	Ensure the corresponding independent switch is turned ON.
USB device is charging slowly.	Ensure you are using a fast-charge compatible port and cable. Remember USB-A2 and USB-C2 share power if used together.
LED voltage display is flashing.	Vehicle battery voltage is low (below 12V for a 12V system). Start the engine to charge the battery.
Device powers off unexpectedly.	Total power draw may have exceeded 180W, triggering overload protection. Unplug some devices. The device may have overheated. Allow it to cool.
Fuse blows repeatedly.	The connected load is too high. Reduce the number or power rating of connected devices. Do not use a fuse with a higher amperage rating.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

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