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RHUNDO RS21S

RHUNDO RS-21S 3-Way Car Cigarette Lighter Splitter Instruction Manual

Model: RS-21S
Brand: RHUNDO

1. Introduction

The RHUNDO RS-21S is a versatile 3-way car cigarette lighter splitter, adapter, and charger designed to expand your vehicle's power capabilities. It features three 12V cigarette lighter sockets and two USB ports, controlled by a remote touch sensor switch. Advanced functions include battery discharge prevention, overload protection, a startup delay timer, an automatic power-off timer, and a USB thermometer cable for temperature monitoring.

2. Package Contents

- Main Unit (3-way cigarette lighter sockets + 2 USB ports)
- Remote Touch Sensor Switch Panel
- USB Thermometer Cable
- Adhesive Tape for mounting

3. Product Overview



Image: Overview of the RHUNDO RS-21S 3-Way Car DC Outlet Adapter, showing the main unit with three sockets and two USB ports, and the separate remote control unit.

Main Components:

- **Power Plug:** Compact design to minimize protrusion when plugged into the car's outlet.
- **Main Unit:** Features three extended 12V outlets and two USB ports for charging multiple devices.
- **Control Unit:** Equipped with four touch sensor power switches, a display, and a master power switch for comprehensive control.

What Makes It Different from Generic Products?
Main Features



Remote Control Unit

the control unit seperate from the main unit



Touch Sensor Power Switches

turn on or off the three outlets or USB ports with touch of a finger



Master Power Switch

switches on or off the entire device; configures functions



Sequential Power-on for Outlets

reduces surge during startup of attached appliances



Voltage Display

displays the battery voltage



Amperage Display

displays the output current of the two USB ports



Timer Display

displays the elapsed time since the unit is powered on



Temperature Display

needs an external temperature sensor cable connected



Power-on Delay Timer

sets the delay time for 1-30 secs before the device swithes on







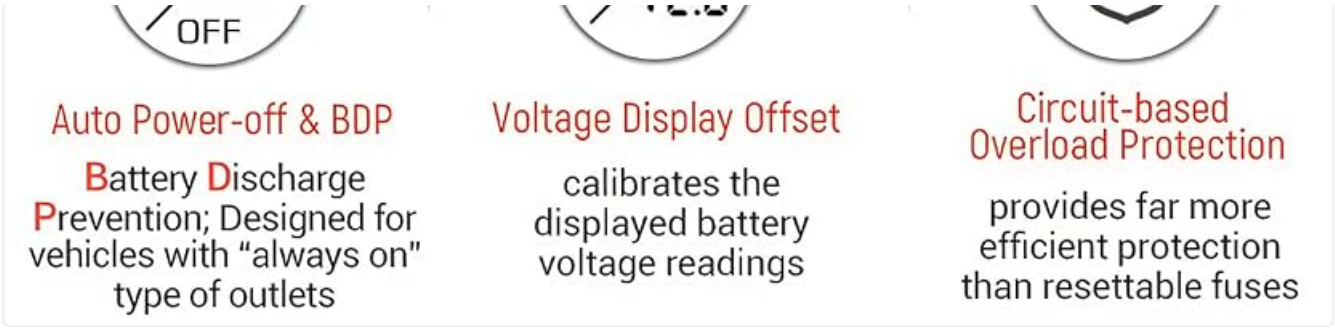


Image: Diagram illustrating the main features of the RS-21S, including the remote control unit, touch sensor power switches, master power switch, sequential power-on, various display modes (voltage, amperage, timer, temperature), power-on delay timer, auto power-off & BDP, voltage display offset, and circuit-based overload protection.

4. Key Features

- **Remote Control Touch Sensor Panel LED Display:** Shows car battery voltage, USB output amperage, timer, and temperature reading (requires included temperature sensor).
- **Battery Discharge Prevention (BDP) / Low Voltage Cut-off:** Adjustable range (11.0V-14.0V) to prevent battery drain.
- **Overload Protection:** Safeguards against damage in case of current overload.
- **Start-up Delay Timer:** Adjustable from 1-30 seconds to reduce stress on the car battery during engine startup.
- **Automatic Power-Off Timer:** Adjustable from 1-120 minutes for controlled power supply.
- **Power Status Memory:** Remembers ON/OFF status of individual touch sensor switches and the master power switch.
- **Adjustable Brightness:** 9 levels of backlighting brightness for the touch switches.
- **Individual Touch-Sensor Switches:** Controls power to each of the 3 cigarette lighter sockets and the two USB ports independently.

5. Setup and Installation

1. **Connect the Main Unit:** Plug the power plug of the main unit into your vehicle's 12V cigarette lighter socket. Its compact design ensures it does not protrude excessively.
2. **Position the Control Unit:** Use the supplied adhesive tape to mount the remote control unit in a convenient location within your vehicle, ensuring easy access to the touch switches and display.
3. **Connect Temperature Sensor (Optional):** If you wish to monitor temperature, plug the USB thermometer cable into one of the USB ports on the main unit. Position the sensor end in the desired area for temperature reading.

6. Operating Instructions

Your browser does not support the video tag.

Video: A detailed product walk-through demonstrating the features and operation of the RHUNDO RS-21S, including power-on sequence, individual switch control, brightness adjustment, display modes, and function settings.

6.1. Power On/Off and Sequential Activation

1. When the vehicle's ignition is turned on, the control unit and main unit will power on. The touch sensor switches on the control unit and the corresponding outlets/USB ports on the main unit will light up sequentially. This sequential power-on reduces current surge and stress on your car's battery.

2. To quickly shut off the entire device, press and hold the Master Power Switch (located on the side of the control unit) for approximately 2 seconds. All lights and power will turn off.
3. To turn the device back on after a full shutdown, briefly press the Master Power Switch without holding.

6.2. Individual Outlet Control



Image: Close-up of the main unit, highlighting the two USB ports available for simultaneous power conversion and supply.

- The control unit has four touch sensor switches: '1', '2', '3' for the cigarette lighter sockets, and 'USB' for the USB ports.
- Simply touch the corresponding switch to toggle power ON or OFF for that specific outlet or USB port. The switch's backlight will indicate its status.

6.3. Adjusting Backlight Brightness



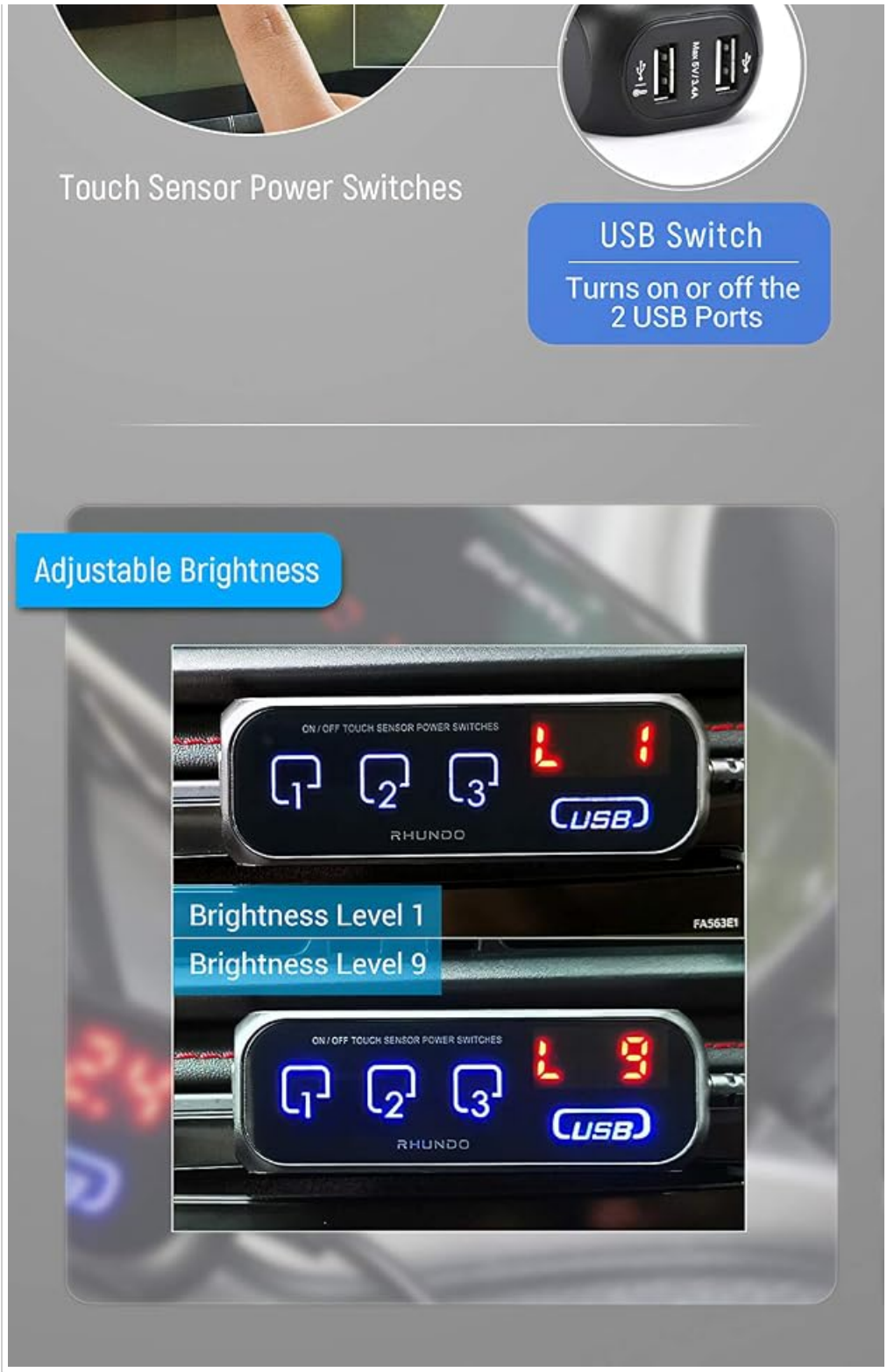


Image: The remote control unit showing the touch sensor power switches and the display, demonstrating different brightness levels for the backlighting.

1. With the device powered on, press and hold the Master Power Switch.
2. While holding the Master Power Switch, quickly touch the 'USB' switch. The backlight brightness will enter adjustment mode, indicated by switches '2' and '3' flashing.
3. Touch switch '3' to increase brightness or switch '2' to decrease brightness. There are 9 levels of brightness.
4. Once the desired brightness is set, press and hold the Master Power Switch again, then quickly touch the 'USB' switch to save the setting.

6.4. Display Modes

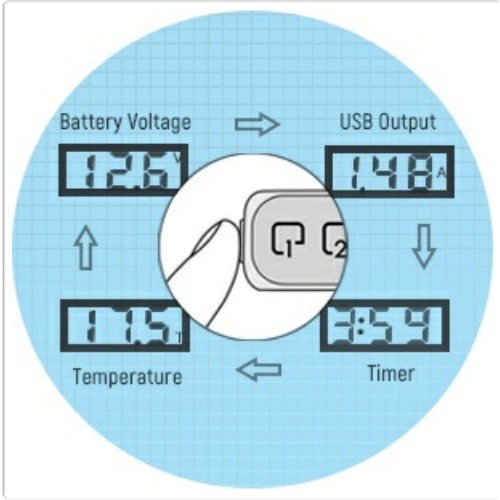


Image: The control unit's LED display showing various information modes such as battery voltage, USB output, temperature, and timer.

- Briefly press the Master Power Switch to cycle through the display modes: Car Battery Voltage, USB Output Amperage, Timer, and Temperature (if sensor is connected).

6.5. Temperature Sensor Setup

1. To enable temperature display, first ensure the device is completely off (press and hold Master Power Switch for 2 seconds).
2. Press and hold the Master Power Switch again until 'Fn.1' appears on the display. Continue pressing the Master Power Switch to cycle through functions until 'Fn.4' (Temperature Display) is shown.
3. Once 'Fn.4' is displayed, press and hold the Master Power Switch until 'OFF' appears.
4. Touch switch '2' or '3' to select between Celsius ('°C') or Fahrenheit ('°F').
5. Press and hold the Master Power Switch until 'SET' appears, then release to save the setting.
6. Plug the external thermometer cable into one of the USB ports on the main unit. The temperature will now be displayed in the selected unit.

6.6. Startup Delay Timer (Function 1)

This feature prevents immediate power-on of connected devices when the engine starts, protecting the car battery from sudden current draws.

1. Ensure the device is completely off.
2. Press and hold the Master Power Switch until 'Fn.1' appears. This is the Startup Delay Timer function.
3. Press and hold the Master Power Switch again until 'OFF' appears.
4. Touch switch '2' or '3' to set the delay time in seconds (1-30 seconds). 'OFF' disables the feature.
5. Press and hold the Master Power Switch until 'SET' appears, then release to save.

6.7. Automatic Power-Off Timer (Function 2) and Threshold Voltage (Function 3)

These features are crucial for vehicles with 'always-on' cigarette lighter ports, preventing battery drain by automatically cutting power after a set time or when battery voltage drops below a threshold.

1. Ensure the device is completely off.
2. Press and hold the Master Power Switch until 'Fn.1' appears. Briefly press the Master Power Switch to cycle to 'Fn.2' (Automatic Power-Off Timer).
3. Press and hold the Master Power Switch again until 'OFF' appears.

4. Touch switch '2' or '3' to set the power-off duration in minutes (1-120 minutes). 'OFF' disables the feature.
5. Press and hold the Master Power Switch until 'SET' appears, then release to save.
6. To set the threshold voltage (Fn.3), repeat steps 1-2, but cycle to 'Fn.3'. Press and hold the Master Power Switch until the current voltage setting appears.
7. Touch switch '2' or '3' to adjust the voltage threshold (11.0V-14.0V, in 0.1V increments).
8. Press and hold the Master Power Switch until 'SET' appears, then release to save.

7. Specifications



RS-21S Features & Specifications	
Input Voltage	DC 10-28V
Max. Output for USB Ports	DC5V-3.4A(Total) / 2.4A (Single)
Load Capacity for Outlets	Single 6A (≈72W) / Total 9A (≈108W)
Display Modes	Battery Voltage / USB Output / Timer / Temperature *(External temp sensor needed for temp display)*
Ways to Switch	Manually / Automatically

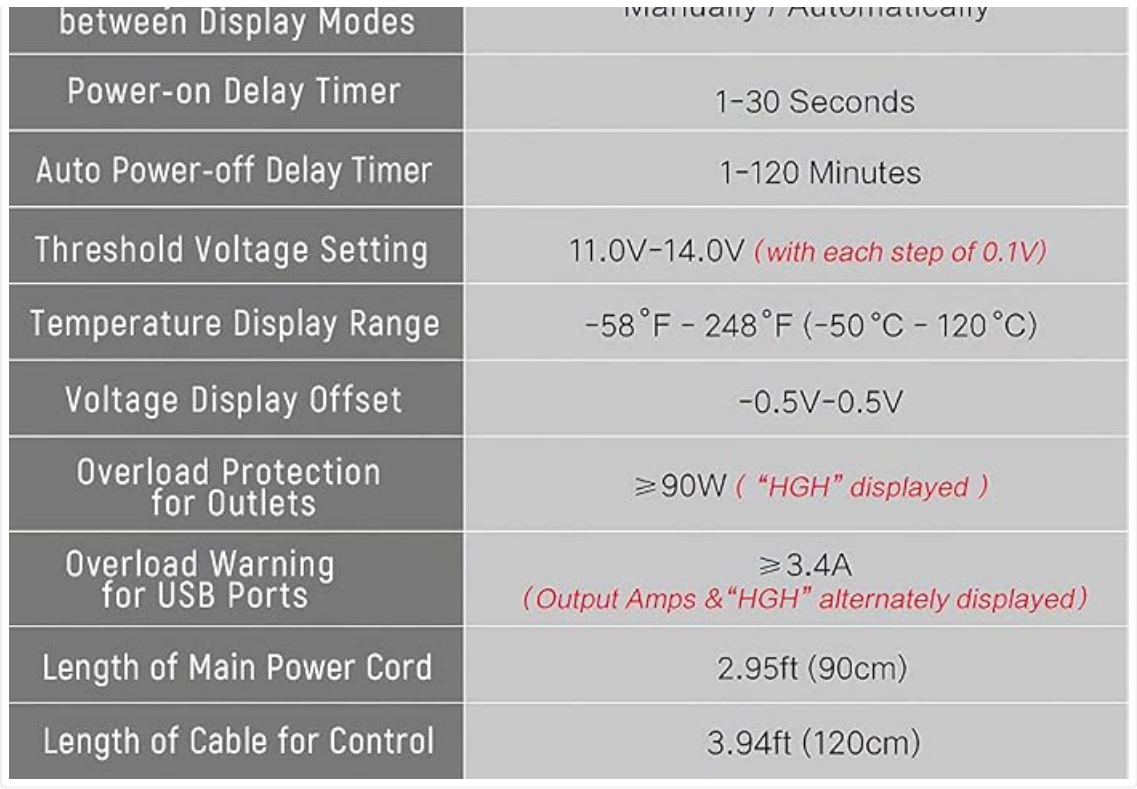


Image: Visual representation of the RS-21S dimensions and a table detailing its features and specifications.

Feature	Specification
Input Voltage	DC 10-28V
Max. Output for USB Ports	DC5V-3.4A (Total) / 2.4A (Single)
Load Capacity for Outlets	Single 6A (~72W) / Total 9A (~108W)
Display Modes	Battery Voltage / USB Output / Timer / Temperature
Ways to Switch between Display Modes	Manually / Automatically
Power-on Delay Timer	1-30 Seconds
Auto Power-off Delay Timer	1-120 Minutes
Threshold Voltage Setting	11.0V-14.0V (with each step of 0.1V)
Temperature Display Range	-58°F - 248°F (-50°C - 120°C)
Voltage Display Offset	-0.5V-0.5V
Overload Protection for Outlets	≥90W ("HGH" displayed)
Overload Warning for USB Ports	≥3.4A (Output Amps & "HGH" alternately displayed)
Length of Main Power Cord	2.95ft (90cm)
Length of Cable for Control	3.94ft (120cm)

8. Troubleshooting

- **Device not powering on:** Ensure the main unit's power plug is securely inserted into the car's 12V outlet. Check your vehicle's fuse for the cigarette lighter socket.
- **Individual outlets/USB ports not working:** Verify that the corresponding touch sensor switch on the control unit is activated (backlit). If the device is in automatic power-off mode, check the battery voltage and timer settings.
- **Automatic Power-Off (APO) not functioning as expected:** Review the settings for Function 2 (Auto Power-Off Timer) and Function 3 (Threshold Voltage). Ensure the threshold voltage is set appropriately for your vehicle's battery condition when parked.
- **Display showing "HGH":** This indicates an overload condition. Disconnect devices from the overloaded outlet/USB port immediately. The device has built-in overload protection.
- **Inaccurate temperature readings:** Ensure the USB thermometer cable is fully plugged into a USB port and the sensor end is positioned correctly, away from direct heat or cold sources. Verify that Function 4 (Temperature Display) is enabled and set to the correct unit (°C/°F).
- **Backlight too bright/dim:** Adjust the brightness using the procedure described in section 6.3.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the official RHUNDO website or contact your retailer. Keep your purchase receipt as proof of purchase.

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Model number, symptoms, what you tried, or the section of the manual you are using.

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