

## Te-Rich HC62D

# Te-Rich 12V/24V 3-Outlet Car Power Splitter with 4 USB Charger (Model: HC62D) Instruction Manual

Comprehensive Guide for Safe and Efficient Use

## 1. INTRODUCTION

Thank you for choosing the Te-Rich 12V/24V 3-Outlet Car Power Splitter with 4 USB Charger. This device is designed to expand the power and charging capabilities within your vehicle, allowing you to power multiple electronic devices simultaneously. Please read this manual thoroughly before use to ensure proper operation and safety.

## 2. SAFETY INFORMATION

- Ensure your vehicle's power outlet (cigarette lighter socket) is clean and free of debris before plugging in the splitter.
- Do not exceed the maximum total power output of 120W for all outlets combined. Overloading can cause damage to the device or your vehicle's electrical system.
- Avoid exposing the device to extreme temperatures, direct sunlight, or moisture.
- Keep out of reach of children.
- Do not disassemble or modify the device. This will void the warranty and may cause safety hazards.
- Unplug the device from the vehicle's power outlet when not in use to prevent battery drainage.
- The built-in 10A auto-recovery fuse protects against overcurrent. If the device stops working, check for an overload.

## 3. PRODUCT OVERVIEW

The Te-Rich Car Power Splitter provides multiple charging options for your vehicle. It features three 12V/24V DC outlets and four USB-A charging ports.



Figure 1: Main unit of the Te-Rich Car Power Splitter, showing the 3 DC outlets, 4 USB ports, and the attached cigarette lighter plug with voltage display.

### Key Features:

- **7-in-1 Multi-Port Design:** Includes 3 DC cigarette lighter sockets and 4 USB-A charging ports.
- **High Power Output:** Total maximum output of 120W for all DC sockets.
- **Smart USB Charging:** Each USB port delivers up to 2.4A (5V), with a total USB output of 6.8A, intelligently detecting devices for optimal charging speed.
- **On/Off Switch:** Integrated power button on the cigarette lighter plug to control power to the splitter, conserving vehicle battery and protecting devices.
- **Voltage Meter:** LED display on the cigarette lighter plug shows real-time vehicle battery voltage.
- **Advanced Safety Features:** Built-in 10A auto-recovery fuse, smart IC chip, and protective circuits guard against overcharging, overloading, over-current, short-circuiting, and overheating.
- **Extended Cable:** 3.3 ft (1 meter) extension cord for flexible placement.

## ADDITIONAL SMART FEATURES

smart voltage monitor and easy power switch



- Designed with easy on/off switch for energy-saving
- LED display helps monitor your car battery, when the voltage is under 12V, warning with flashing number on the display

*Figure 2: Detailed view of the splitter unit, highlighting the 4 USB ports, 3 DC outlets, and the voltage display on the main plug.*



Figure 3: The cigarette lighter plug, showing the LED voltage display and the red power switch for controlling the splitter.

## COMPREHENSIVE COMPATIBILITY

Compatible with almost all the car charge appliances in your 12V/24V vehicle, like GPS, Dash Cam, iPhone, iPad, MP3 and etc.



Figure 4: Illustration of the splitter's compatibility with various devices such as smartphones, tablets, dash cams, and GPS units.

## 4. SETUP AND INSTALLATION

1. **Connect to Vehicle:** Insert the cigarette lighter plug of the Te-Rich splitter firmly into your vehicle's 12V/24V power outlet. The LED voltage display on the plug should illuminate, showing your vehicle's battery voltage.
2. **Power On:** Press the red power switch on the cigarette lighter plug to activate the splitter.
3. **Placement:** Use the included 3M adhesive pads to secure the main splitter unit to a clean, smooth surface in your vehicle. Ensure the surface is dry and free of dust or grease for optimal adhesion. Press firmly for at least 10 minutes after attachment. The 3.3 ft cable allows for flexible positioning, including for backseat access.

## Compact & Portable Size



Figure 5: The Te-Rich Car Power Splitter positioned in a vehicle's center console, demonstrating its compact size and cable length.

## Note:

The 3M adhesive is Not for repeated uses that should be carefully attached to smooth surface and stay still for at least 10 minutes at first use.



Figure 6: A view of the underside of the splitter unit, showing the placement of the 3M adhesive pads for secure mounting.  
Note that these pads are not designed for repeated re-attachment.

## 5. OPERATING INSTRUCTIONS

- **Using DC Outlets:** Plug your 12V/24V compatible devices (e.g., dash cams, GPS, portable DVD players) into the three DC sockets. Ensure the total power consumption does not exceed 120W.
- **Using USB Ports:** Connect your USB-powered devices (e.g., smartphones, tablets, smartwatches) to the four USB-A ports. The intelligent IC technology will automatically detect your device and deliver the fastest possible charging speed up to 2.4A per port.
- **Monitoring Voltage:** The LED display on the main plug continuously shows your vehicle's battery voltage. If the voltage drops below 12V, the display will flash, indicating a low battery condition.
- **Power Control:** Use the red on/off switch to easily power the splitter on or off. This helps prevent battery drain when the vehicle is off and protects connected devices.

## 6. MAINTENANCE

- Clean the device regularly with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Ensure the DC sockets and USB ports are free from dust and debris to maintain optimal connection.
- Store the device in a cool, dry place when not in use for extended periods.

## 7. TROUBLESHOOTING

| Problem                      | Possible Cause                                                                                                                                                                                                                                        | Solution                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No power to splitter/devices | <ul style="list-style-type: none"><li>◦ Cigarette lighter plug not fully inserted.</li><li>◦ Power switch is off.</li><li>◦ Vehicle's power outlet is not active.</li><li>◦ Overload (fuse tripped).</li><li>◦ Faulty vehicle power outlet.</li></ul> | <ul style="list-style-type: none"><li>◦ Push the plug firmly into the socket.</li><li>◦ Press the red power switch to turn on.</li><li>◦ Check if the vehicle ignition is on (some outlets are only active with ignition).</li><li>◦ Unplug some devices to reduce load. The auto-recovery fuse should reset.</li><li>◦ Test the vehicle outlet with another device.</li></ul> |
| Slow charging via USB ports  | <ul style="list-style-type: none"><li>◦ Using a low-quality USB cable.</li><li>◦ Device requires higher charging current than available.</li></ul>                                                                                                    | <ul style="list-style-type: none"><li>◦ Use the original or a high-quality USB cable.</li><li>◦ Ensure your device is compatible with 5V/2.4A charging.</li></ul>                                                                                                                                                                                                              |
| Voltage display flashing     | <ul style="list-style-type: none"><li>◦ Vehicle battery voltage is below 12V.</li></ul>                                                                                                                                                               | <ul style="list-style-type: none"><li>◦ This indicates a low vehicle battery. Consider starting your engine or checking your battery.</li></ul>                                                                                                                                                                                                                                |

## 8. SPECIFICATIONS

| Feature                | Detail                                                  |
|------------------------|---------------------------------------------------------|
| Model Number           | HC62D                                                   |
| Input Voltage          | DC 12V / 24V                                            |
| DC Socket Output       | Max 120W (Total for 3 sockets)                          |
| USB Output             | 5V / 2.4A (Each port), 5V / 6.8A (Total for 4 ports)    |
| Fuse                   | 10A Auto-recovery Fuse                                  |
| Cable Length           | 3.3 ft (1 meter)                                        |
| Dimensions (Main Unit) | 4.25" x 1.20" x 2.20" (approximate)                     |
| Weight                 | 6.3 ounces                                              |
| Special Features       | Voltage Display, On/Off Switch, Multi-Protection System |



Figure 7: Diagram illustrating the compact size and cable length of the Te-Rich Car Power Splitter.

## 9. WHAT'S IN THE BOX

- 1 x Te-Rich Car Power Splitter (Model HC62D)
- 1 x Strap (Velcro band for cable management)
- *Note: 3M adhesive pads are pre-attached or included separately for mounting.*

## 10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact Te-Rich customer service directly. Keep your purchase receipt for warranty claims.