

## ELEGRP R1620D42-WH

# ELEGRP USB Charger Wall Outlet Instruction Manual

Model: R1620D42-WH

20 Amp Duplex Tamper Resistant Receptacle with Type A & Type C USB Ports

## 1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your ELEGRP USB Charger Wall Outlet. Please read these instructions thoroughly before installation and retain them for future reference. This product is designed to provide both standard AC power outlets and convenient USB charging ports for various electronic devices.

## 2. SAFETY INFORMATION

**WARNING: RISK OF ELECTRIC SHOCK. IMPROPER INSTALLATION CAN RESULT IN SERIOUS INJURY OR DEATH.**

- Installation must be performed by a qualified electrician or a knowledgeable person in accordance with all national and local electrical codes.
- Always turn off power at the circuit breaker or fuse box before installation or servicing.
- Use only copper wire. Do not use with aluminum wire.
- Ensure all wire connections are secure and properly insulated.
- This device is for indoor use only.
- Do not exceed the maximum electrical ratings of the device.

# RELIABLE SURGE PROTECTION THROUGH ANY STORM

Protect all your devices - outlets or usb ports,  
we've got you covered



**Figure 2.1:** The ELEGRP USB Charger Wall Outlet includes multiple protection features such as short circuit, overload, overvoltage, overcurrent, overheating, and undervoltage protection to safeguard connected devices.

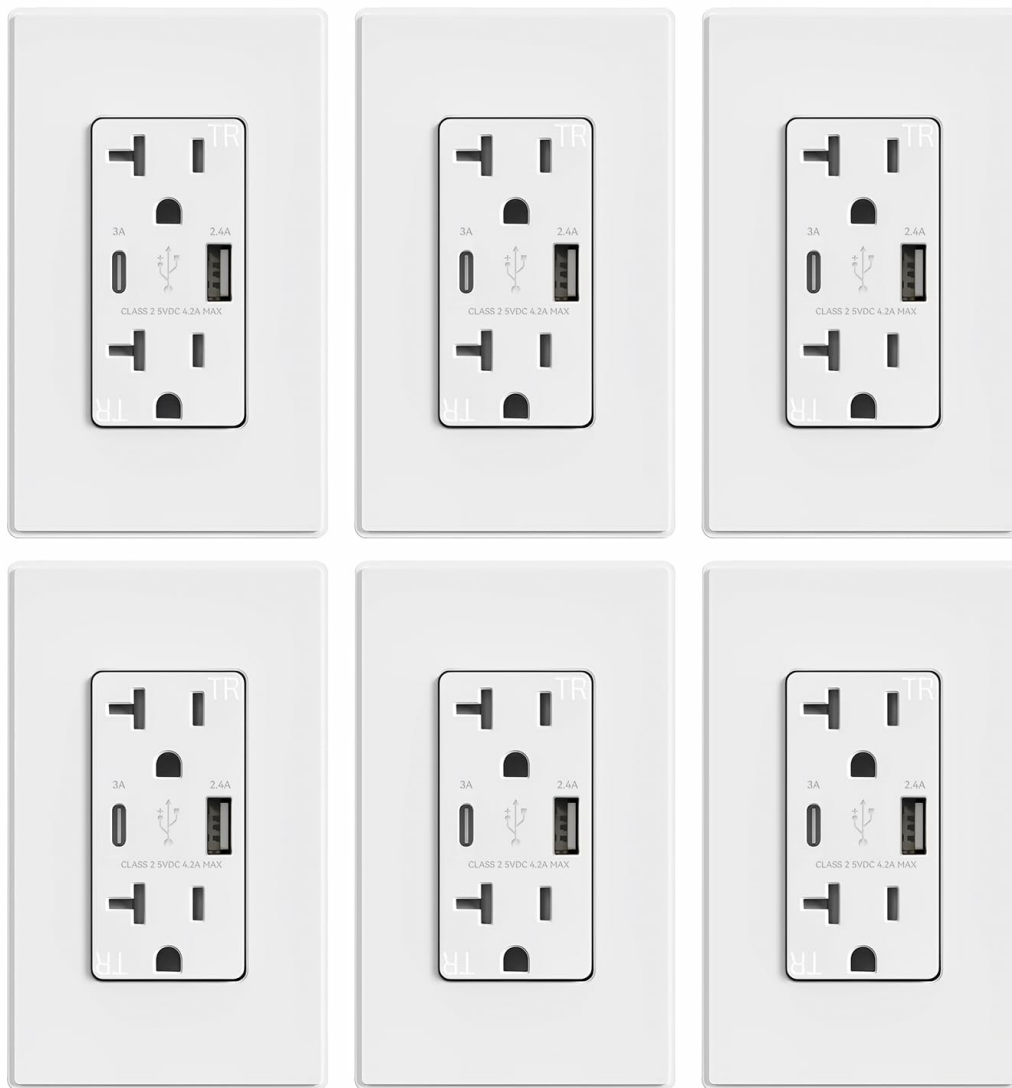


**Figure 2.2:** Comparison demonstrating cooler operation of the ELEGRP outlet (left) versus a conventional outlet (right) under an 18W load, indicating advanced heat management for safety.

### 3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- USB Outlet with Screwless Wall Plate
- Installation Instruction Manual (this document)



**Figure 3.1:** A typical package containing multiple ELEGRP USB Charger Wall Outlets, each with a screwless wall plate.

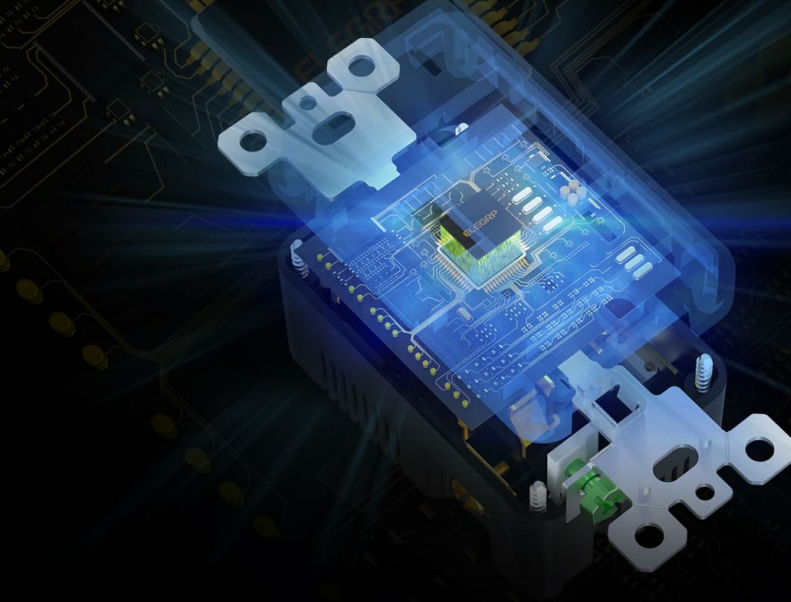
## 4. PRODUCT FEATURES

- **High-Speed Charging:** Integrated Type A and Type C USB ports with a total output of 4.2 Amp 5V DC. The Type C port provides a maximum of 3.0 Amp 5V DC, and the Type A port provides a maximum of 2.4 Amp 5V DC when used separately.
- **USB Dedicated Charging Port Controller:** Each USB port incorporates a protocol chip to optimize charging current for connected devices, ensuring stable and faster charging.
- **Tamper-Resistant Shutters:** Safety shutters are built into the AC outlets to prevent the insertion of foreign objects, enhancing child safety.
- **Universal Compatibility:** USB ports are compatible with a wide range of devices including smartphones, tablets, e-readers, and gaming systems.
- **Easy Installation:** Supports both side wiring and back wiring for flexible installation. Screws are pre-loosened for convenience.

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## USB DEDICATED CHARGING PORT CONTROLLER

Automatically identifies and optimizes the charging current for electronic devices



**Figure 4.1:** Diagram showing the internal USB dedicated charging port controller chip, highlighting tamper-resistant shutters, universal compatibility, flame-resistant material, and UL/cUL/FCC listings.

## 5. INSTALLATION INSTRUCTIONS

Follow these steps carefully to install your ELEGRP USB Charger Wall Outlet:

1. **Turn Off Power:** Locate the circuit breaker or fuse box controlling the outlet you wish to replace. Turn off the power completely to prevent electric shock. Verify power is off using a voltage tester.
2. **Remove Old Outlet:** Unscrew and carefully remove the existing wall plate and outlet from the electrical box. Disconnect the wires from the old outlet.
3. **Prepare Wires:** Strip approximately 1/2 inch (12.7 mm) of insulation from the ends of the wires if necessary. Ensure wires are straight and free of nicks.
4. **Connect Wires:** The ELEGRP USB Charger Wall Outlet supports both side wiring and back wiring. Refer to the diagram below for proper connections.
  - **Green Screw:** Connect the ground wire (bare copper or green insulated).
  - **Silver Screws:** Connect the neutral wire (white insulated).

- **Brass Screws:** Connect the hot wire (black insulated).

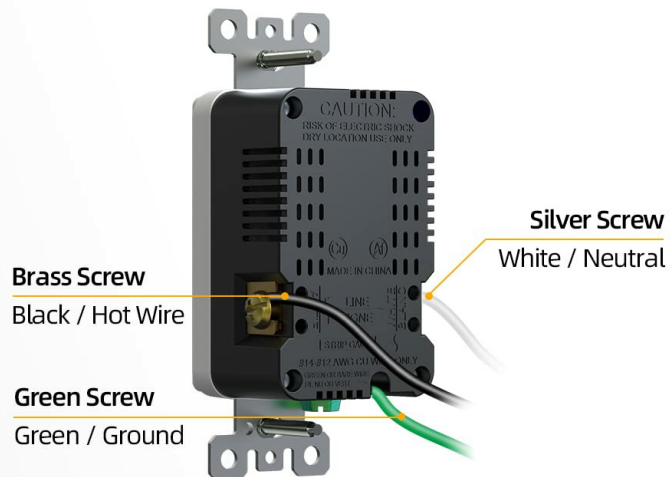
Ensure all connections are tight. For back wiring, insert the wire fully into the terminal hole and tighten the screw. For side wiring, loop the wire clockwise around the screw and tighten.

5. **Mount New Outlet:** Carefully fold the wires into the electrical box. Insert the new ELEGRP outlet into the box and secure it with the mounting screws.
6. **Install Wall Plate:** Attach the screwless wall plate over the outlet.
7. **Restore Power:** Turn the power back on at the circuit breaker or fuse box.
8. **Test:** Test both the AC outlets and the USB ports to ensure proper functionality.

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## ***SIDE WIRE***

12AWG & 14AWG



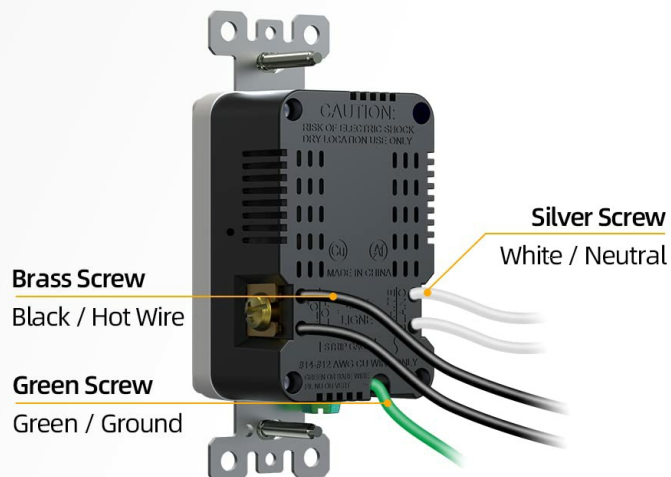
Provide

**2**

Wiring Options

## ***BACK WIRE***

12AWG & 14AWG



**Figure 5.1:** Detailed wiring diagrams for both side wiring (12AWG & 14AWG) and back wiring (12AWG & 14AWG) configurations, showing connections for brass (hot), silver (neutral), and green (ground) screws. The diagram illustrates connections for both single and multiple cable entries into the electrical box.

## **6. OPERATING INSTRUCTIONS**

Using your ELEGRP USB Charger Wall Outlet is straightforward:

- **AC Outlets:** Plug any standard electrical appliance or device into the two AC receptacles.



Ensure the device's power requirements do not exceed the outlet's rating.

- **USB Charging Ports:** Connect your USB-powered devices directly to the Type A or Type C USB ports using a compatible charging cable. The intelligent charging chip will detect your device and deliver optimal power for efficient charging.



**Figure 6.1:** Comparison of charging times for various devices using ELEGRP Smart Chip technology versus standard 1 Amp charging, demonstrating faster charging capabilities.

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## COMPATIBLE CHARGING WITH ALL KINDS OF DEVICES



Ipad



Phone



Camera



Power Bank



Sound



Headset



Watch



Switch



Apple Devices



Android Devices



Samsung Devices

**Figure 6.2:** Illustration of various devices compatible with the USB charging ports, including iPads, phones, cameras, power banks, sound devices, headsets, watches, and gaming consoles.



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## **NO MORE USB ADAPTERS**

Charge 2 USB devices at the same time with a total output of 4.2 Amps without the hassle and clutter from bulky adapters



**Figure 6.3:** Image showing a tablet and phone charging directly from the USB ports of the wall outlet, illustrating the convenience of not needing bulky USB adapters.



**Figure 6.4:** Scenes depicting the outlet in use: a person sleeping peacefully with a phone charging noise-free, and a couple relaxing while charging devices, emphasizing quiet operation.

## 7. MAINTENANCE

To ensure the longevity and proper function of your outlet:

- Clean the surface with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Periodically check for any loose connections or damage. If damage is found, turn off power at the breaker and have the outlet inspected by a qualified electrician.
- Do not attempt to disassemble or repair the unit yourself.

## 8. TROUBLESHOOTING

If you encounter issues with your ELEGRP USB Charger Wall Outlet, consider the following:

- **No Power to AC Outlets or USB Ports:**

- Check the circuit breaker or fuse box to ensure power is on.
- Verify that the outlet is properly wired and all connections are secure (refer to Section 5).

- **Slow USB Charging:**

- Ensure you are using a high-quality USB cable.
- Some devices may have specific charging requirements. While the outlet optimizes output, extremely demanding devices might charge slower if their maximum input exceeds the port's output.
- If multiple devices are charging simultaneously, the total output is shared, which may reduce individual port speeds.

- **Device Not Recognized by USB Port:**

- Try a different USB cable.
- Test with a different device to isolate the issue.

- **Outlet Feels Warm:**

- It is normal for electrical outlets to feel slightly warm during operation, especially when charging multiple devices or high-power devices. If the outlet becomes excessively hot, turn off power at the breaker and consult a qualified electrician.

## 9. SPECIFICATIONS


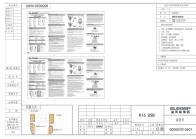
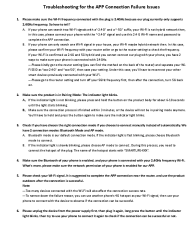



Feature	Specification
Receptacle Rating	20A, 125V
Receptacle Type	NEMA 5-15R
USB Rating	Share total output of 5V 4.2A Type A: 5VDC 2.4A Type C: 5VDC 3.0A
Wire Gauge	#14 - #12 AWG
Wiring Type	Side Wire & Back Wire
Operating Temperature	-4 to 104°F (-20 to 40°C)
Product Size	4.17"L x 1.69"W x 1.65"D (106x43x42mm)
Material	Polycarbonate Thermoplastic
Certifications	UL Listed, FCC

## 10. WARRANTY AND SUPPORT

ELEGRP products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official ELEGRP website. Keep your proof of purchase for warranty claims.

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### Related Documents - R1620D42-WH

	<p><a href="#">ELEGRP Combination Receptacle and USB Charger Installation Guide</a></p> <p>Detailed installation instructions and specifications for the ELEGRP Combination Receptacle and USB Charger, including features, wiring diagrams, compatibility, and safety warnings.</p>
	<p><a href="#">ELEGRP R16 USB Combination Receptacle and Charger Installation Guide</a></p> <p>Installation instructions, specifications, and safety warnings for the ELEGRP R16 USB combination receptacle and charger. Features dual USB ports, standard outlet, and easy wiring. Includes warranty and FCC compliance.</p>
	<p><a href="#">ELEGRP Smart Plug Troubleshooting: Resolve APP Connection Failures</a></p> <p>Comprehensive guide to troubleshooting and resolving APP connection failures for ELEGRP smart plugs. Learn how to check Wi-Fi frequency, pairing mode, connection modes, phone settings, and signal strength.</p>
	<p><a href="#">Combination Receptacle / USB Charger Installation Instructions</a></p> <p>Installation instructions for the Combination Receptacle / USB Charger, detailing features, specifications, compatibility, and wiring diagrams. Includes safety warnings and cautions.</p>
	<p><a href="#">ELEGRP Smart Dimmer Light Switch Installation Guide</a></p> <p>This document provides installation instructions for the ELEGRP Smart Dimmer Light Switch, covering single-pole and 3-way configurations. It details wiring, setup, and compatibility with smart home assistants like Alexa and Google Assistant.</p>
	<p><a href="#">ELEGRP Matter Smart Plug User Manual</a></p> <p>User manual for the ELEGRP Matter Smart Plug (Model MP10), covering product introduction, specifications, setup options using the ELEGRP HOME App or third-party Matter-enabled apps, troubleshooting common issues, important safety instructions, FCC and ISED Canada compliance statements, and the one-year limited warranty.</p>

