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> Voltre M2 Level 1 & 2 EV Charger for Tesla | 25 Ft MAX Cable | 10-32A | 110-240V Portable Electric Vehicle Car Fast Charger |14-50, 5-15 Plug for J1772 Neon Orange User Manual

voltretech VTR-M2-32A-ADJ-25FT-N1

Voltre M2 Level 1 & 2 EV Charger User Manual

Model: VTR-M2-32A-ADJ-25FT-N1

INTRODUCTION

Thank you for choosing the Voltre M2 Level 1 & 2 EV Charger. This portable electric vehicle charger is designed to provide efficient and reliable charging for a wide range of electric vehicles, including Tesla models (with an adapter) and other SAE J1772 compatible EVs. This manual provides essential information for safe and optimal use of your charger, covering setup, operation, maintenance, and troubleshooting.



SAFETY INFORMATION

Please read all safety instructions carefully before using the charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Always ensure the power outlet is properly grounded. Do not use extension cords or adapters that are not rated for the charger's power requirements.
- **Environmental Conditions:** The charger is designed with NEMA enclosures (IP65) for protection against dirt, rain, and snow. It operates optimally from -22 °F to 122 °F (-30 °C to 50 °C). Avoid submerging the charger in water.
- **Cable Handling:** Always handle the charging cable by the plug. Do not pull the cable to disconnect. Ensure the cable is not kinked, pinched, or run over by vehicles.
- **Ventilation:** Ensure adequate ventilation around the charger during operation to prevent overheating.
- **Children and Pets:** Keep the charger and cables out of reach of children and pets.

Extreme Performance in Extreme Weather

Charge against falling dirt, rain, sleet, snow, windblow dust, splashing water, and horse-directed water.

SOLUTION OF GROUNDING FAULT ISSUES	
 Current	Long Press Current button for 3 seconds
 Delay	Long Press Delay button for 3 seconds



The Voltre M2 charger is built for extreme weather, with IP65 rated enclosures protecting components from dirt, rain, and snow, ensuring reliable operation in various conditions.

PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x Voltre M2 EV Charger
- 1 x Organizer/Carrying Case
- 1 x NEMA 14-50 Plug
- 1 x NEMA 5-15 Adapter
- 1 x User Manual (this document)

In The Box

- ① 1 × EV Charger
- ② 1 × Organizer
- ③ 1 × NEMA 14-50 Plug
- ④ 1 × NEMA 5-15 Adaptor
- ⑤ 1 × User Manual

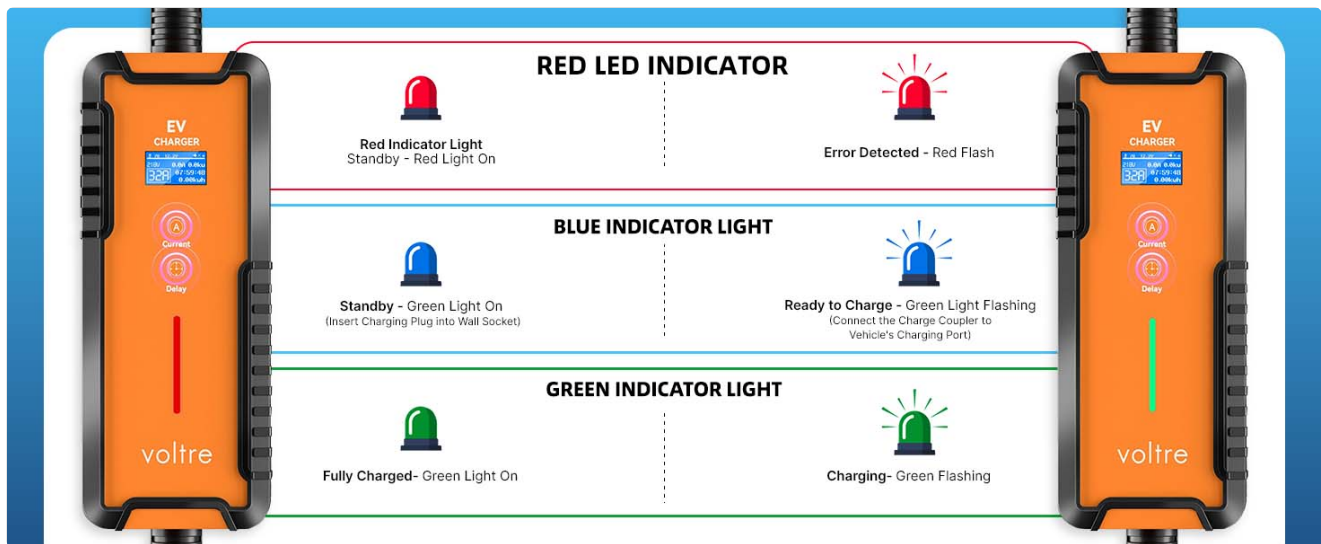


Illustration of the items included in the Voltre M2 EV Charger package.

SETUP AND INSTALLATION

The Voltre M2 charger is designed for portability and does not require complex installation. Follow these steps to set up your charger:

1. **Choose the Right Power Plug:** Identify the appropriate power outlet for your charging needs. Use the NEMA 5-15 adaptor for Level 1 (110V) charging or the NEMA 14-50 plug for Level 2 (240V) charging.
2. **Insert Power Plug:** Securely insert the chosen power plug into a wall socket.
3. **Adjust Current and Charging Time (Optional):** Before connecting to your vehicle, you can press the 'Current' button to cycle through available amperage settings (10/13/16/24/28/32A). Press the 'Delay' button to set a delayed start time (1-8 hours).
4. **Connect to EV:** Insert the SAE J1772 charging plug into your electric vehicle's charging port. For Tesla vehicles, a J1772 to Tesla adapter (not included) is required.
5. **Verify Charging:** Charging will start automatically. Monitor the indicator light and the display screen to confirm that charging is active.



Step-by-step guide for connecting the Voltre M2 charger to a power source and an EV.

OPERATING INSTRUCTIONS

The Voltre M2 charger offers flexible charging options and an intuitive display.

Charging Levels and Amperage

- **Level 1 Charging:** Utilizes the NEMA 5-15 adapter for 110V outlets, providing up to 13A (Max). Ideal for overnight charging or when Level 2 is unavailable.
- **Level 2 Charging:** Utilizes the NEMA 14-50 plug for 240V outlets, providing adjustable amperage from 10A to 32A (Max). This offers up to 7KW, significantly faster than Level 1 charging.

Adjusting Current and Delay

The charger features a simple interface for adjusting settings:

- **Current Adjustment:** Press the 'Current' button (labeled 'A') to cycle through available amperage settings (10A, 13A, 16A, 24A, 28A, 32A).
- **Delay Charging:** Press the 'Delay' button (labeled with a clock icon) to set a charging delay from 1 to 8 hours. This is useful for scheduling charging during off-peak electricity rates.

Adjustable 32 Amp for Level 1 and 2 EVs

Voltage: 110-240V

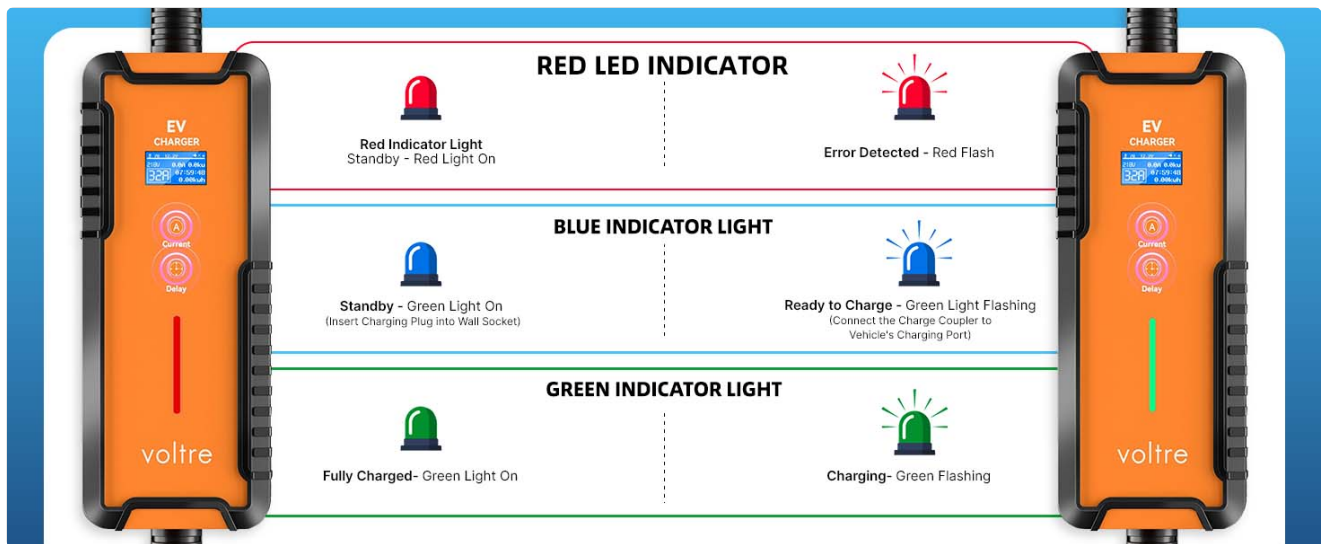


The charger's display allows for easy adjustment of current and setting a charging delay.

LED Indicator Lights

The charger features an LED indicator light to provide quick status updates:

- **Red Light (Solid):** Standby mode.
- **Red Light (Flashing):** Error detected. Refer to troubleshooting.
- **Blue Light (Solid):** Ready to charge (charger plugged into wall socket).
- **Blue Light (Flashing):** Ready to charge (charger connected to vehicle).
- **Green Light (Solid):** Fully charged.
- **Green Light (Flashing):** Charging in progress.

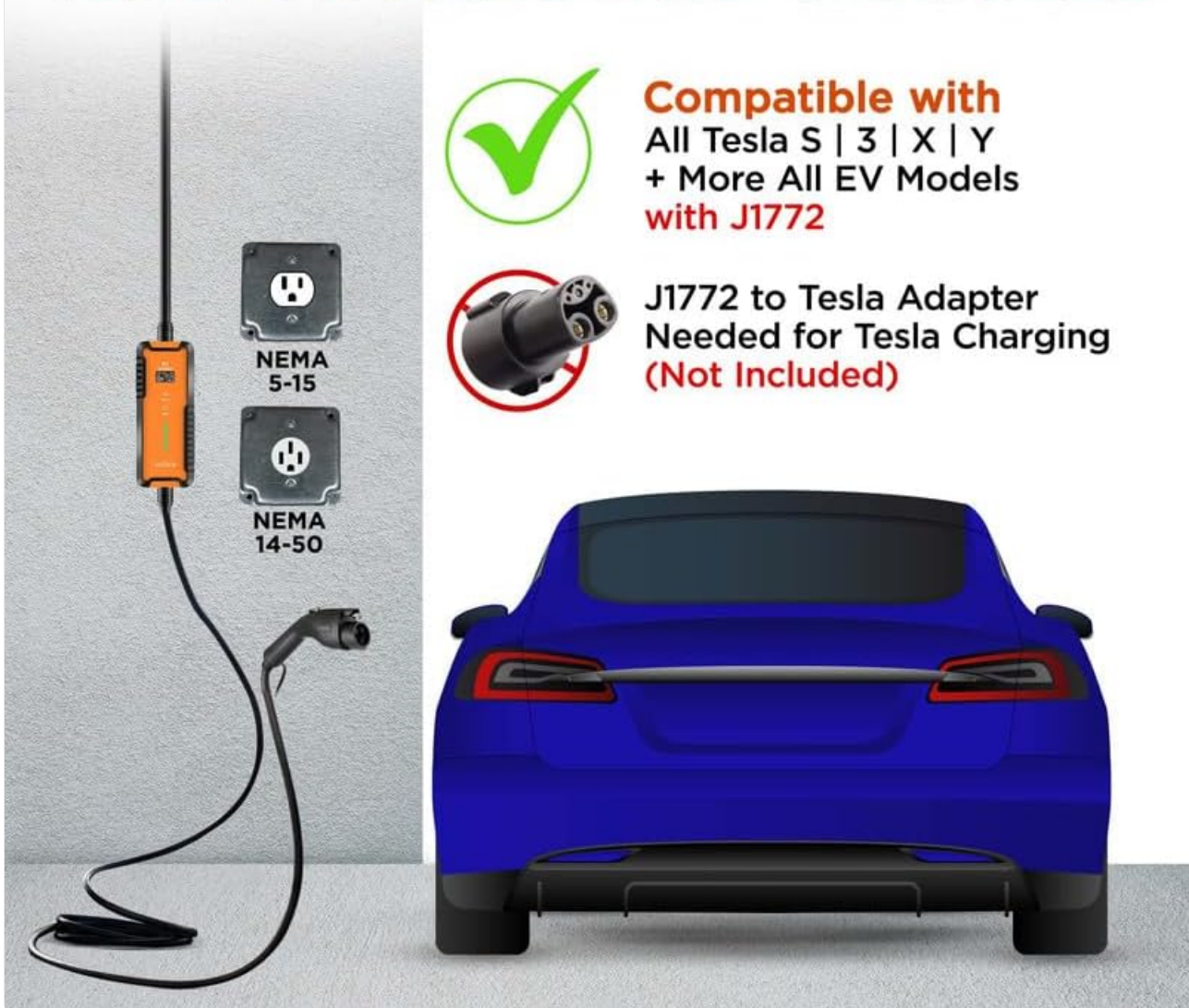


Understanding the LED indicator lights for quick status checks.

FEATURES AND BENEFITS

- **Universal Compatibility:** Compatible with Tesla vehicles (J1772 to Tesla adapter required, not included) and all SAE J1772 EVs.
- **Enhanced Safety & Durability:** Features UL Recognized Cables with superior 10 AWG copper, thicker than standard cables, ensuring safer and more efficient power transfer.
- **Portable Design:** Weighing only 13.2 lbs and including a compact carrying case, the charger offers full mobility for charging anywhere.
- **Smart Display:** The LED screen displays real-time charging status, including temperature, charging voltage, current, power, time, and energy consumed.

UNIVERSAL EV CHARGER FOR TESLA & ELECTRIC VEHICLES



The Voltre M2 charger is universally compatible with most EV models.

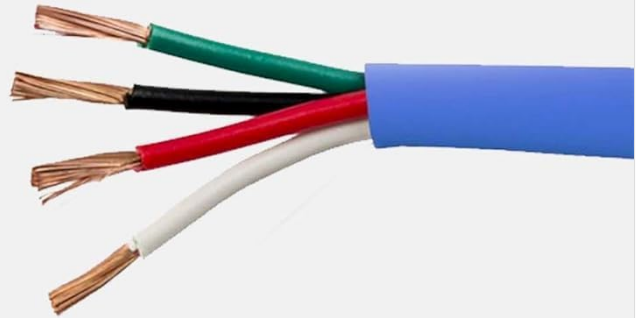
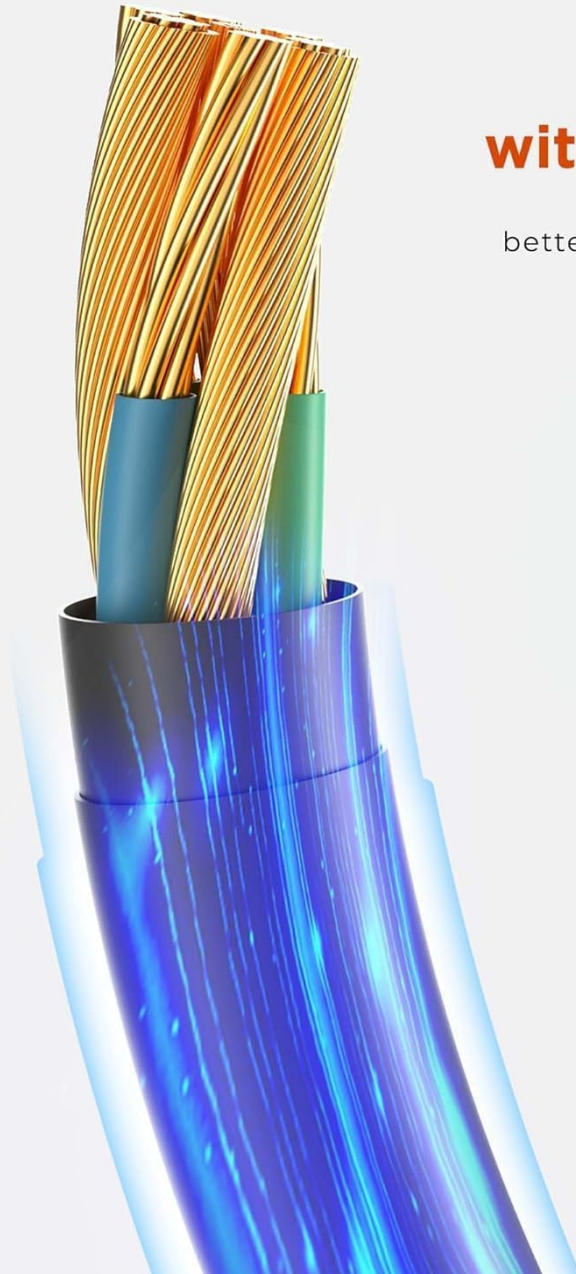
Auto Safer & Reliable with Thicker MAX Cables

- High efficiency power transfer
- better temperature control with less heat to
- achieve a longer lifetime



CABLE

10 AWG Copper:
Thicker than other Brands



Thicker MAX Cables ensure enhanced safety and durability.

Lighter & Full Mobility EV Charger

13.2lb Weight. 24ft Cable. Convenient to Carry Anywhere

(Tips: Plug, Set Amp and Charging Time before Plugging into your Car)



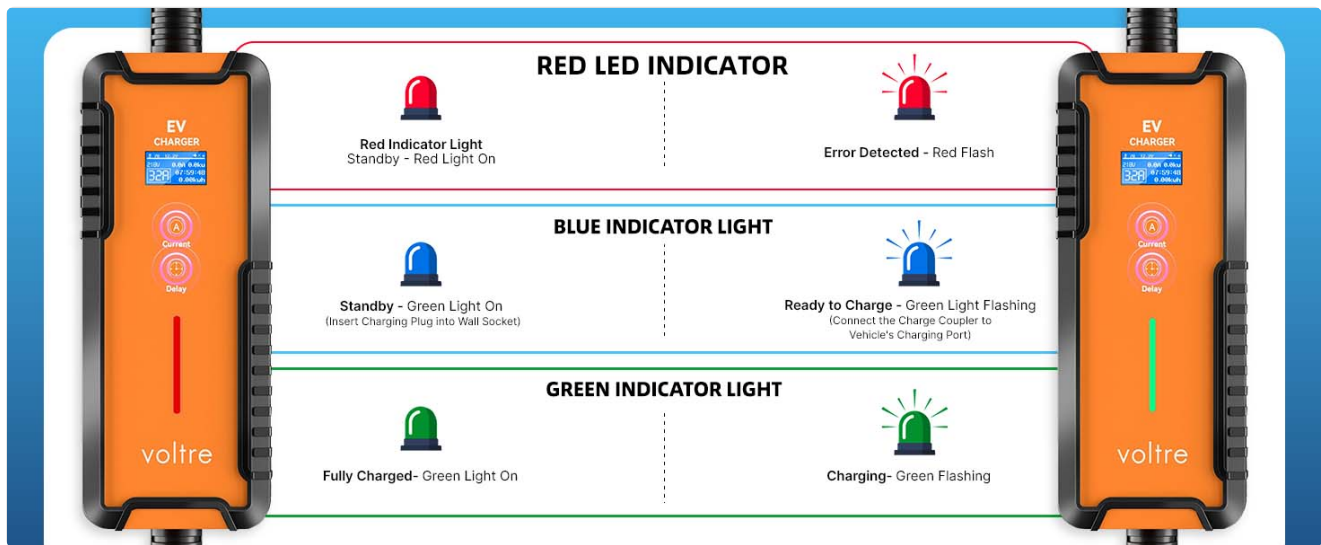
The lightweight and portable design allows for full mobility.

TROUBLESHOOTING

If you encounter issues with your Voltre M2 charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on / No display	No power from outlet, loose connection.	Ensure the power plug is fully inserted into a live wall socket. Check the circuit breaker.
Charging not starting	Vehicle not properly connected, delay timer set, vehicle battery full.	Ensure the J1772 plug is fully inserted into the vehicle. Check if a delay timer is active. Verify vehicle battery status.

Problem	Possible Cause	Solution
Grounding Fault Issue (Red light flashes 4 times)	Improper grounding in the electrical system.	To Enter Grounding Mode: Long press the 'Current' button for 3 seconds. The display will indicate grounding mode. To Exit Grounding Mode: Long press the 'Delay' button for 3 seconds. If the issue persists, consult a qualified electrician.
Over Voltage Protection (Red light flashes 5 times)	Input voltage exceeds safe limits.	Unplug the charger immediately. Check the outlet voltage. Do not use if voltage is unstable or too high.
Over Current Protection (Red light flashes 6 times)	Current draw exceeds set limit or circuit capacity.	Reduce the amperage setting on the charger. Ensure the outlet and circuit can handle the selected current.
Leakage Protection (Red light flashes 7 times)	Electrical leakage detected.	Unplug the charger. Do not use if there is any sign of damage or moisture. Consult a qualified electrician.
Over Heating Protection (Red light flashes 8 times)	Charger or cable is overheating.	Disconnect the charger and allow it to cool down. Ensure adequate ventilation and no obstructions around the charger.

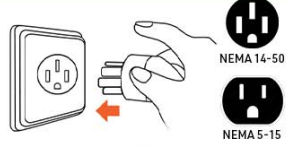
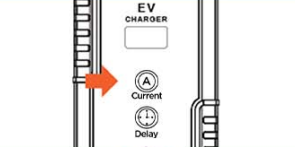

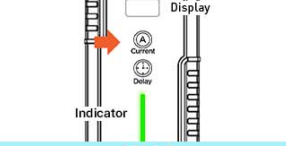




Specific instructions for resolving grounding fault issues.

SPECIFICATIONS

Feature	Detail
Model Number	VTR-M2-32A-ADJ-25FT-N1
Input Voltage	110-240 Volts AC
Max Amperage (Level 2)	32A

Feature	Detail
Max Amperage (Level 1)	13A
Max Power (Level 2)	7KW
Max Power (Level 1)	1.56KW
Cable Length	25 Feet
Cable Gauge	10 AWG Copper
Operating Temperature	-22 °F to 122 °F (-30 °C to 50 °C)
IP Rating	IP65
Product Dimensions	19 x 8 x 5 inches
Item Weight	10.98 pounds

 <p>STEP 1 Choose the Right Power Plug & Insert the Power Plug into a wall socket Tips: Level 1: 110V - 5-15 Plug Level 2: 240v 14-50 Plug</p>	 <p>STEP 2 Press the Button to Set the Current and Charging Time Level 1: 5-15 (Max. 13A) Level 2: 14-50 (Max. 32A)</p>	<p>SOLUTION OF GROUNDING FAULT ISSUES</p> <table border="1"> <tbody> <tr> <td>(A) Current</td> <td>Long Press 3s to ENTER Grounding</td> </tr> <tr> <td>(⏸) Delay</td> <td>Long Press 3s to EXIT Grounding</td> </tr> </tbody> </table> <p>STEP 3 •Exiting Ground Mode to Solve Ground Fault with 4 Flashes</p>	(A) Current	Long Press 3s to ENTER Grounding	(⏸) Delay	Long Press 3s to EXIT Grounding	 <p>STEP 4 Insert the charging Plug into the EV Socket For Tesla: Need a J1772 to Tesla Adaptor (Not Included)</p>																																			
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 <p>STEP 5 Charging Starts with Indicator Light Blink & Check the display to make sure EV charging is on</p>	<table border="1"> <thead> <tr> <th>Condition</th> <th>Color</th> <th>Flash State</th> </tr> </thead> <tbody> <tr> <td>Power On (unplugged)</td> <td>Green</td> <td>Stays On</td> </tr> <tr> <td>Insert the Plug</td> <td>Green</td> <td>Flashing</td> </tr> <tr> <td>Charging Completed</td> <td>Blue</td> <td>Flashing</td> </tr> <tr> <td>Charging Mode</td> <td>Blue</td> <td>Stays On</td> </tr> <tr> <td>Communication Error</td> <td>Red</td> <td>1 Flash</td> </tr> <tr> <td>Under - Voltage Protection</td> <td>Red</td> <td>2 Flashes</td> </tr> <tr> <td>Grounding Fault</td> <td>Red</td> <td>3 Flashes</td> </tr> <tr> <td>Over - Voltage Protection</td> <td>Red</td> <td>4 Flashes</td> </tr> <tr> <td>Over - Current Protection</td> <td>Red</td> <td>5 Flashes</td> </tr> <tr> <td>Leakage Protection</td> <td>Red</td> <td>6 Flashes</td> </tr> <tr> <td>Over - Heating Protection</td> <td>Red</td> <td>7 Flashes</td> </tr> <tr> <td>Over - Heating Protection</td> <td>Red</td> <td>8 Flashes</td> </tr> </tbody> </table> <p>STEP 6 Monitor the indicator light to Check the Charging Status</p>	Condition	Color	Flash State	Power On (unplugged)	Green	Stays On	Insert the Plug	Green	Flashing	Charging Completed	Blue	Flashing	Charging Mode	Blue	Stays On	Communication Error	Red	1 Flash	Under - Voltage Protection	Red	2 Flashes	Grounding Fault	Red	3 Flashes	Over - Voltage Protection	Red	4 Flashes	Over - Current Protection	Red	5 Flashes	Leakage Protection	Red	6 Flashes	Over - Heating Protection	Red	7 Flashes	Over - Heating Protection	Red	8 Flashes	 <p>STEP 7 Remove plug from the socket when charging finishes.</p>	 <p>STEP 8 Unplug the power plug from the wall socket.</p>
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Detailed specifications for Level 1 and Level 2 charging.

WARRANTY AND SUPPORT

Voltretech is committed to providing high-quality products. For warranty information, technical support, or service inquiries, please refer to the contact information provided on the product packaging or visit the official Voltretech website. Keep your purchase receipt as proof of purchase for any warranty claims.