

CyberPower Series – Intelligent EV Discharge System (V2L) User Manual

Version: V4.0

Applicable Models: Tesla

1. Safety Precautions

DANGER

- **High Voltage Risk:** This device operates with high voltage. DO NOT touch metal terminals while the device is powered.
- **No Modification:** Do not disassemble, repair, or modify this device.
- **Water & Moisture:** Do not use in heavy rain, standing water, or extremely humid environments to avoid electric shock hazards.

NOTICE

- **Protection Reset:** If protection (e.g., Short Circuit, Over-Power) is triggered (Solid Red Light), the system will lock. **You MUST unplug the gun first, then manually turn off the physical power switch and restart to reset.**
 - **Cable Check:** Inspect the gun and cables for damage or burns before use.
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2. Specifications

Please check the voltage specification of your device to ensure compatibility with your appliances.

Item	EU Version (High Power)	NA Version (Standard)
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Model No.	CP-V2L-EU8K	CP-V2L-NA4K
Connector Standard	CCS2 (Combo 2)	NACS (Tesla Standard)
Max Output Power	8 kW	4 kW
AC Output Voltage	AC 230V (50Hz)	AC 120V (60Hz)
Vehicle Input Voltage	DC 100V - 480V	DC 100V - 480V
Protection Features	Short Circuit , Over-Power, Under-Voltage, Over-Temperature	Same as EU Version
Operating Temp.	-20°C ~ +50°C	-20°C ~ +50°C

3. Operation Instructions

To ensure successful communication handshake, please **strictly follow** these steps:

Step 1: Power On

1. Press the power switch on the device.
2. Wait for the LED to turn **Solid Blue** .
 - *Note: If the LED blinks Red immediately, please charge the device first.*

Step 2: Connect

1. Ensure the vehicle is unlocked.
2. Insert the discharge gun vertically into the vehicle's charging port until you hear a

"click" indicating it is locked.

3. The LED will turn **Solid Green**  , indicating the device is performing a communication handshake with the vehicle.

Step 3: Discharge

1. When the LED turns **Blinking Green**  , communication is complete, and the discharge relay is closed.
2. Output voltage (**230V for EU / 120V for NA**) is now available at the socket. You may connect your electrical appliances.

Step 4: Stop

1. **Disconnect Load:** Remove all connected electrical appliances from the socket first.
2. **Unplug Gun:** Unplug the discharge gun (unlocking via vehicle screen may be required for some models).
3. **Power Off:** Finally, turn off the device power switch.

4. LED Status Indicators

This device features an intelligent status monitoring system. Please refer to the LED color and behavior below.

Color	Status	Meaning	Explanation & Action
 Blue	Solid	Ready / Standby	Device is ON, auxiliary power is OK. Please plug into the vehicle.

 Green	Solid	Communicating	Protocol handshake in progress. Do not operate.
 Green	Blinking	Discharging	Normal Operation. Power is being output.
 Blue	Blinking	Interference	Signal interference (CP/PP signal error). Action: Unplug, straighten the cable, move away from interference sources, and retry.
 Red	Blinking	Low Aux Power	Internal battery is low. Action: Cannot start communication. Please charge the device via the Type-C port.

 Red	Solid	Stop / Protection	System Locked. Possible causes: 1. Short Circuit (Load appliance fault). 2. Over-Power (Load >8KW/4KW) . 3. Under-Voltage (Input <100V). 4. Vehicle Stopped discharge. Action: MUST unplug the gun, turn OFF the power switch, and restart to reset.
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5. Smart App Connectivity

This device supports smart connectivity. Download the official App to view real-time data and manage the device.

Key Features:

-  **Real-time Monitoring:** View current **Voltage (V)**, **Amperage (A)**, and **Output Power (KW)** instantly.
-  **OTA Firmware Upgrade:** Update device firmware wirelessly to fix bugs and improve protocol compatibility.
-  **Diagnostics:** View device logs and status codes.

Download Guide:

Scan the QR codes below to download the "POWER-V2L" App:

iOS (Apple App Store)	Android (Google Play / APK)
	

6. Troubleshooting

Q1: After plugging in, the LED stays Solid Blue and does not turn Green?

- **A:** The vehicle has not detected the plug. Check if the gun is fully inserted or if there is debris in the charging port.

Q2: During use, the LED suddenly turns Solid Red and power cuts off?

- **A:** Safety protection has been triggered.
 1. **Check Short Circuit:** Ensure the connected appliance is not faulty.
 2. **Check Power:** Ensure total load does not exceed limits (EU 8KW / NA 4KW).
 3. **Check Vehicle:** Ensure the vehicle battery level is sufficient.
 4. **Recovery: Disconnect Load -> Unplug Gun -> Turn OFF device power ->**
Wait 5 seconds -> Turn ON again.

Q3: The Red LED is blinking, and the device won't work?

- **A:** The internal auxiliary battery is dead. Please charge the device for 15-30 minutes before use.

Q4: The LED stays Solid Green for a while, then reboots, and this happens repeatedly?

- **A:** Handshake failed. Two possible causes:
 - **Cause A (Vehicle Side): Vehicle battery level is too high.**
 - **Action:** The SOC is above the charging limit. Consume some battery or adjust the limit on the car screen.
 - **Cause B (App Setting): Vehicle voltage is lower than the App cutoff setting.**
 - **Action:** The "Discharge Cutoff Voltage" in the App is set too high. Please **connect via Bluetooth** to the App and **modify the cutoff voltage**, ensuring it is lower than the vehicle's current voltage.

7. Warranty

1. This product is covered by a 12-month limited warranty from the date of purchase.
2. Failures caused by human damage, water ingress, unauthorized disassembly, or failure to follow the manual are not covered by the warranty.

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