

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

Version: V3.4

Applicable Models: Tesla & vehicles compatible with CCS2/NACS standards.

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

This product is available in multiple power versions. Please check the product label for your specific model parameters.

| Item | EU Series (Europe) | NA Series (North America) |
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| <i>Available Models</i> | <i>CP-V2L-EU5K (Standard)</i> <i>CP-V2L-EU8K (Pro)</i> | <i>CP-V2L-NA3K (Standard)</i> <i>CP-V2L-NA4K (Pro)</i> |
| <i>Connector Standard</i> | <i>CCS2 (Combo 2)</i> | <i>NACS (Tesla Standard)</i> |
| <i>Max Output Power</i> | <i>5 kW / 8 kW (Selectable)</i> | <i>3 kW / 4 kW (Selectable)</i> |
| <i>AC Output Voltage</i> | <i>AC 230V (50Hz)</i> | <i>AC 120V (60Hz)</i> |
| <i>Vehicle Input Voltage</i> | <i>DC 100V - 480V</i> | <i>DC 100V - 480V</i> |
| <i>Protection Features</i> | <i>Short Circuit, Over- Power, Under-Voltage, Over-Temperature</i> | <i>Same as EU Version</i> |
| <i>Operating Temp.</i> | <i>-20°C ~ +50°C</i> | <i>-20°C ~ +50°C</i> |

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 |
|-------|--------|---------|----------------------|
|-------|--------|---------|----------------------|

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| <i>Blue</i> | <i>Solid</i> | <i>Ready / Standby</i> | <i>Device is ON, auxiliary power is OK. Please plug into the vehicle.</i> |
| <i>Green</i> | <i>Solid</i> | <i>Communicating</i> | <i>Protocol handshake in progress. Do not operate.</i> |
| <i>Green</i> | <i>Blinking</i> | <i>Discharging</i> | <i>Normal Operation. Power is being output.</i> |
| <i>Blue</i> | <i>Blinking</i> | <i>Interference</i> | <p><i>Signal interference (CP/PP signal error).</i></p> <p>Action: <i>Unplug, straighten the cable, move away from interference sources, and retry.</i></p> |
| <i>Red</i> | <i>Blinking</i> | <i>Low Aux Power</i> | <i>Internal battery is low.</i> |

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| | | | <p>Action: Cannot start communication. Please charge the device via the Type-C port.</p> |
| <p><i>Red</i></p> | <p><i>Solid</i></p> | <p><i>Stop / Protection</i></p> | <p>System Locked.</p> <p>Possible causes:</p> <ol style="list-style-type: none"> 1. Short Circuit (Load appliance fault). 2. Over-Power (Load exceeds rated limit). 3. Under-Voltage (Input <100V). 4. Vehicle Stopped discharge. <p>Action: MUST</p> |

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| | | | <p><i>unplug the gun, turn OFF the power switch, and restart to reset.</i></p> |
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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 "CyberPower Link" App:

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|------------------------------|------------------------------------|
| <i>iOS (Apple App Store)</i> | <i>Android (Google Play / APK)</i> |
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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 the rated limit (3kW/4kW/5kW/8kW).*
 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 due to High Battery Level.**
 - **Reason:** Vehicle battery (SOC) is too high, or the voltage is higher than or equal to the set charge limit, causing the BMS to reject the V2L session.
 - **Action:** Consume some vehicle battery or adjust the charge limit settings on the vehicle screen before retrying.
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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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CyberPower Series - Empower Your Journey