

## MEAN WELL HDR-15-12

# MEAN WELL HDR-15-12 AC-DC Ultra Slim DIN Rail Power Supply User Manual

Model: HDR-15-12

## 1. INTRODUCTION

The MEAN WELL HDR-15-12 is an ultra-slim 15W AC-DC power supply designed for DIN rail mounting. It provides a stable 12V DC output at 1.25A, suitable for various industrial and automation applications. This manual provides essential information for the safe installation, operation, and maintenance of the device.



Image 1.1: Front view of the MEAN WELL HDR-15-12 AC-DC Ultra Slim DIN Rail Power Supply. This image shows the compact design, input/output terminals, and status indicator LED.

## 2. SAFETY INSTRUCTIONS

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or damage to the device.

- **Qualified Personnel:** Installation and maintenance must be performed by qualified personnel only.
- **Power Disconnection:** Always disconnect the AC input power before performing any installation, wiring, or maintenance.
- **Proper Grounding:** Ensure the device is properly grounded to prevent electric shock.
- **Ventilation:** Do not obstruct ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Environmental Conditions:** Do not operate the device in environments exceeding its specified temperature and humidity ranges. Avoid exposure to moisture or corrosive substances.
- **Output Overload:** Do not exceed the rated output power or current.

### 3. SETUP AND INSTALLATION

Follow these steps for proper installation of the HDR-15-12 power supply.

- Mounting:** Mount the power supply onto a standard TS-35/7.5 or TS-35/15 DIN rail. Ensure the unit is securely fastened. The unit should be mounted vertically to allow for proper heat dissipation.
- Input Wiring:** Connect the AC input wires to the designated terminals (L, N, and FG) on the power supply. Use appropriate wire gauges for the input current. The input voltage range is 85~264 VAC or 120~370 VDC.
- Output Wiring:** Connect the DC output wires to the designated terminals (+V and -V). Ensure correct polarity. The output is 12V DC.
- Terminal Tightening:** Ensure all terminal screws are securely tightened to prevent loose connections and potential hazards.
- Verification:** Before applying power, double-check all wiring connections for correctness and security.



Image 3.1: Illustrative wiring diagram for the HDR-15-12 power supply. This diagram shows the connection points for AC input (L, N, FG) and DC output (+V, -V) terminals.

### 4. OPERATING INSTRUCTIONS

Once installed, the HDR-15-12 operates automatically upon power application.

- Power On:** Apply AC input power to the unit.
- LED Indicator:** A green LED indicator on the front panel will illuminate when the unit is operating normally and providing output power.
- Output Voltage:** The output voltage is fixed at 12V DC. There is no user-adjustable voltage trim.
- Load Connection:** Connect your DC load to the output terminals. Ensure the load does not exceed 1.25A or 15W.

### 5. MAINTENANCE

The HDR-15-12 power supply is designed for reliable operation with minimal maintenance.

- Cleaning:** Periodically clean the exterior of the unit with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure power is disconnected before cleaning.
- Inspection:** Regularly inspect the wiring connections for any signs of damage, corrosion, or loosening. Check for any physical damage to the unit casing.
- Ventilation:** Ensure that the ventilation openings remain clear of dust and debris to maintain proper cooling.

### 6. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions.

| Problem                     | Possible Cause                                    | Solution                                                                                                                                       |
|-----------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| No output voltage / LED off | No input power<br>Faulty wiring<br>Internal fault | Check AC input power source and connections.<br>Verify all wiring connections are secure and correct.<br>If problem persists, contact support. |

| Problem                        | Possible Cause                                 | Solution                                                                                                                     |
|--------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Output voltage unstable or low | Overload condition<br>Loose connections        | Reduce the load connected to the power supply.<br>Check and tighten all output wiring connections.                           |
| Unit is overheating            | Insufficient ventilation<br>Overload condition | Ensure adequate space around the unit for airflow. Clear any obstructions.<br>Reduce the load connected to the power supply. |

## 7. SPECIFICATIONS

Key technical specifications for the MEAN WELL HDR-15-12 power supply.

**Model:** HDR-15-12

**Output Power:** 15 Watts

**Output Voltage:** 12V DC

**Output Current:** 1.25A

**Input Voltage Range:** 85~264 VAC (120~370 VDC)

**Efficiency:** Typically 85%

**Operating Temperature:** -30°C to +70°C (refer to derating curve)

**Mounting:** DIN Rail TS-35/7.5 or TS-35/15

**Protection:** Short Circuit, Overload, Over Voltage

**Dimensions (L x W x H):** 90 x 17.5 x 54.5 mm (approximate, for reference)

## 8. WARRANTY AND SUPPORT

MEAN WELL products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the official MEAN WELL website or your product's purchase documentation.

If you encounter issues that cannot be resolved using the troubleshooting guide, or require technical assistance, please contact your authorized MEAN WELL distributor or reseller. When contacting support, please have your product model number (HDR-15-12) and purchase information readily available.

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

**Submit question**