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### EverSale DDR-120C-24

# Mean Well DDR-120C-24 DC-DC Converter User Manual

Ultra Slim Industrial DIN Rail Converter

## 1. Introduction

This user manual provides essential information for the safe and efficient operation of the Mean Well DDR-120C-24 DC-DC Ultra Slim Industrial DIN Rail Converter. Please read this manual thoroughly before installation and operation to ensure proper use and to prevent potential hazards.
The DDR-120C-24 is a high-performance DC-DC converter designed for industrial applications, featuring an ultra-slim profile for space-saving installations on DIN rails. It converts a wide DC input voltage range to a stable 24Vdc output.

## 2. Safety Information

**WARNING: Risk of Electric Shock and Fire!**

- Installation and maintenance must be performed by qualified personnel only.
- Ensure the power source is disconnected before any installation, wiring, or maintenance procedures.
- Do not operate the converter in environments exceeding its specified temperature and humidity limits.
- Verify correct input and output voltage polarity before connecting. Incorrect polarity can damage the unit and connected equipment.
- Ensure proper grounding of the unit and associated equipment.
- Do not open the converter casing. There are no user-serviceable parts inside.

## 3. Product Overview

The Mean Well DDR-120C-24 is a 120W DC-DC converter designed for DIN rail mounting. Its compact design makes it suitable for various industrial control systems, automation equipment, and other applications requiring a stable 24Vdc power source from a DC input.



Figure 3.1: Mean Well DDR-120C-24 DC-DC Converter. This image shows the ultra-slim industrial DIN rail converter, highlighting its compact form factor and terminal block connections for input and output.

### Key Features:

- Ultra slim design (32mm width)
- DIN rail mountable
- Wide input voltage range: 33.6 - 67.2 Vdc
- Single output: 24 Vdc at 5A
- High efficiency
- Protections: Short circuit, overload, over voltage, input reverse polarity

## 4. Setup

### 4.1. Mounting

The DDR-120C-24 is designed for mounting on a standard TS-35/7.5 or TS-35/15 DIN rail. Ensure the mounting surface is stable and provides adequate ventilation around the unit.

1. Align the top groove of the converter with the top edge of the DIN rail.
2. Push the bottom of the converter firmly towards the DIN rail until it clicks into place.
3. Verify that the converter is securely fastened to the DIN rail and does not wobble.

### 4.2. Wiring Connections

Refer to the terminal block labels on the unit for correct wiring. Use appropriate gauge wires for the input and output currents.

- **Input Terminals:** Connect your DC input power source (33.6-67.2Vdc) to the designated input terminals. Observe correct polarity (+ and -).
- **Output Terminals:** Connect your load to the designated output terminals (24Vdc, 5A max). Observe correct polarity (+ and -).
- **Grounding:** Connect the protective earth (PE) terminal to a reliable ground point.

**CAUTION: Double-check all wiring connections for correct polarity and secure fastening before applying power.**

## 5. Operating Instructions

### 5.1. Powering On

Once all wiring connections are secure and verified, apply the DC input voltage within the specified range (33.6-67.2Vdc) to the input terminals. The unit will automatically begin operation.

### 5.2. LED Indicator

The DDR-120C-24 features an LED indicator on its front panel:

- **Green LED ON:** Indicates normal operation and stable output voltage.
- **Green LED OFF:** Indicates no input power, output fault, or unit malfunction.

### 5.3. Output Voltage Adjustment (V.ADJ)

The output voltage is factory set to 24Vdc. A small potentiometer (V.ADJ) may be present on the unit for fine adjustment of the output voltage. Use a small screwdriver to carefully adjust the voltage within the specified range if necessary. Do not exceed the maximum rated output voltage.

## 6. Maintenance

The Mean Well DDR-120C-24 is designed for reliable, long-term operation with minimal maintenance. However, periodic inspection is recommended.

- **Cleaning:** Keep the unit clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that the ventilation openings are not obstructed to allow for proper airflow and heat dissipation.
- **Connections:** Periodically check all wiring connections to ensure they remain tight and secure. Loose connections can lead to overheating or intermittent operation.
- **Environmental Conditions:** Verify that the operating environment remains within the specified temperature and humidity ranges.

**WARNING: Disconnect all power before performing any maintenance or cleaning.**

## 7. Troubleshooting

This section provides solutions to common issues you might encounter with the DDR-120C-24 converter.

| Problem | Possible Cause | Solution |
|---|---|---|
| No output voltage / LED off | No input power<br>Incorrect input polarity<br>Overload/Short circuit protection activated<br>Unit malfunction | Check input power supply and connections.<br>Verify input wiring polarity.<br>Remove load, check for short circuits, then reapply power.<br>Contact technical support if problem persists. |
| Output voltage too low/high | V.ADJ potentiometer misadjusted<br>Overload condition | Adjust V.ADJ potentiometer carefully.<br>Reduce load to within specified limits. |
| Unit is hot | Insufficient ventilation<br>Overload condition<br>High ambient temperature | Ensure adequate airflow around the unit.<br>Reduce load.<br>Operate within specified temperature range. |

## 8. Specifications

| Parameter | Value |
|---|---|
| Model | DDR-120C-24 |
| Input Voltage Range | 33.6 - 67.2 Vdc |
| Output Voltage | 24 Vdc |
| Output Current | 5 A |
| Rated Power | 120 W |
| Efficiency | (Typically >90%, refer to datasheet for exact value) |
| Operating Temperature | (Refer to manufacturer's datasheet) |
| Dimensions (W x H x D) | 32mm x (Refer to manufacturer's datasheet) |
| Mounting | DIN Rail TS-35/7.5 or TS-35/15 |
| Protections | Short Circuit, Overload, Over Voltage, Input Reverse Polarity |

*Note: For detailed and precise specifications, always refer to the official Mean Well DDR-120C-24 datasheet.*

## 9. Warranty and Support

This Mean Well DDR-120C-24 converter is manufactured to high quality standards. For information regarding warranty terms and conditions, please refer to the documentation provided by the manufacturer, Mean Well, or your point of purchase.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact the authorized distributor or the manufacturer directly. Keep your purchase receipt or proof of purchase handy for any warranty-related inquiries.

Manufacturer: Mean Well

Brand (as listed by seller): EverSale


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