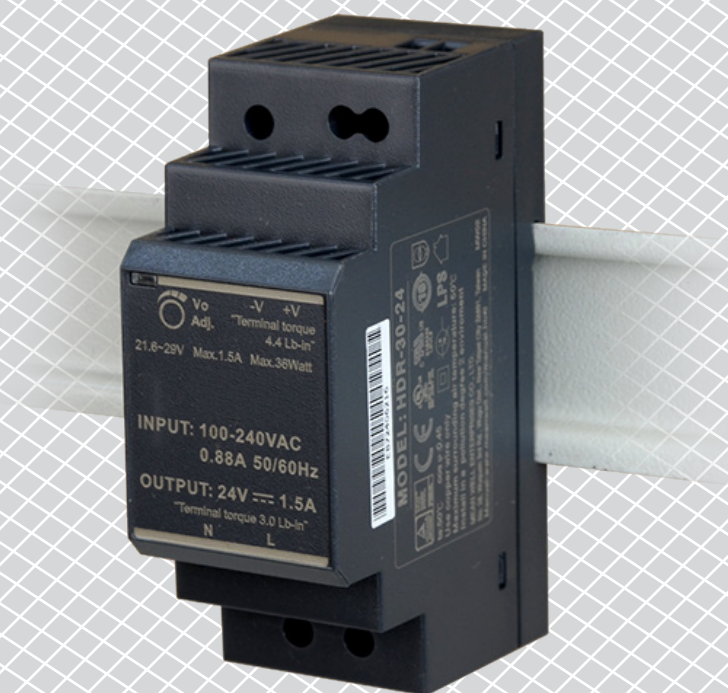


# DHDR8-24/36 | DIN RAIL POWER SUPPLY MODULE

## Mounting and operating instructions



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## SAFETY AND PRECAUTIONS



Read all the information, the datasheet, mounting and operating instructions and study the wiring and connection diagram before working with the product. For personal and equipment safety, and for optimum product performance, make sure you entirely understand the contents before installing, using, or maintaining this product.



For safety and licensing (CE) reasons, unauthorised conversion and /or modifications of the product are inadmissible.



The product should not be exposed to abnormal conditions, such as: extreme temperatures, direct sunlight or vibrations. Long-term exposure to chemical vapours in high concentration can affect the product performance. Make sure the work environment is as dry as possible; avoid condensation.



All installations shall comply with local health and safety regulations and local electrical standards and approved codes. This product can only be installed by an engineer or a technician who has expert knowledge of the product and safety precautions.



Avoid contacts with energised electrical parts. Always disconnect the power supply before connecting, servicing or repairing the product.



Always verify that you apply appropriate power supply to the product and use appropriate wire size and characteristics. Make sure that all the screws and nuts are well tightened and fuses (if any) are fitted well.



Recycling of equipment and packaging should be taken into consideration and these should be disposed of in accordance with local and national legislation / regulations.



In case there are any questions that are not answered, please contact your technical support or consult a professional.

## PRODUCT DESCRIPTION

DHDR8-24/36 are economical 24 VDC / 36 W DIN rail mounted power supply modules with universal 85–264 VAC input range. Their ultra-slim design allows space saving inside the electrical cabinets.

## ARTICLE CODES

Code	Input voltage
<b>DHDR8-24/36</b>	85–264 VAC / 50–60 Hz

## INTENDED AREA OF USE

- Power supply for 24 VDC articles such as sensors, controllers and user interfaces
- Industrial and household control systems, building and factory automation

## TECHNICAL DATA

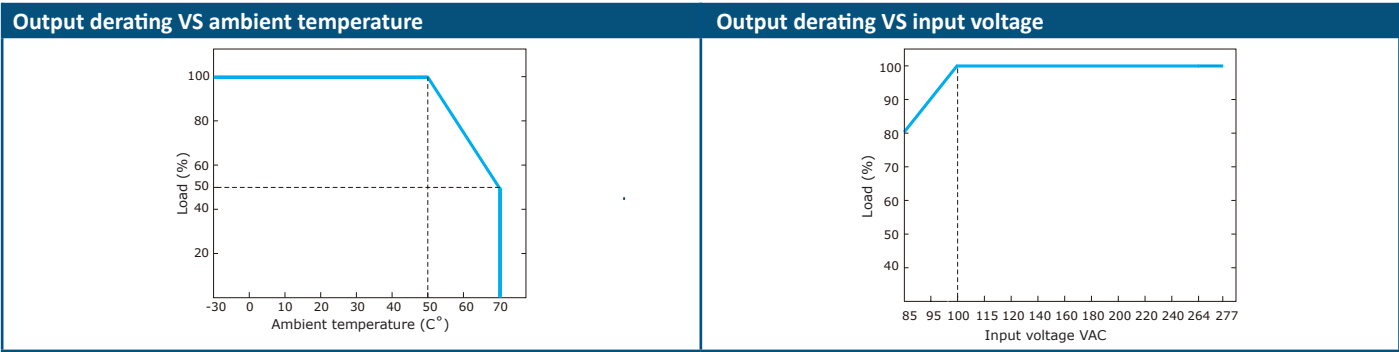
- Input voltage 85–264 VAC / 47–63 Hz
- Output voltage: 24 VDC
- Rated power: 36 W
- Maximum output current: 1,5 A
- Output voltage green LED indication
- No load power consumption: < 0,3 W
- Protection:
  - ▶ overload: constant current limiting, recovers automatically after fault condition is removed
  - ▶ overvoltage: shut down, re-power to recover
- EMC emission: Class B (EN55032)
- Protection class: IP20
- Operating ambient conditions:
  - ▶ temperature range: -30–70 °C
  - ▶ rel. humidity: 20–90 % rH (non-condensing)

## STANDARDS

- Low Voltage Directive 2014/35/EC
- EMC Directive 2014/30/EC:
  - ▶ EN55024, EN55035, EN61000-6-2, EN61204-3
  - ▶ EN 55032, EN61000-3-2, EN61000-3-3
  - ▶ EN 61000-4-2 to EN 61000-4-8
  - ▶ EN61000-4-11
- WEEE Directive 2012/19/EC
- RoHs Directive 2011/65/EC



OPERATIONAL DIAGRAMS



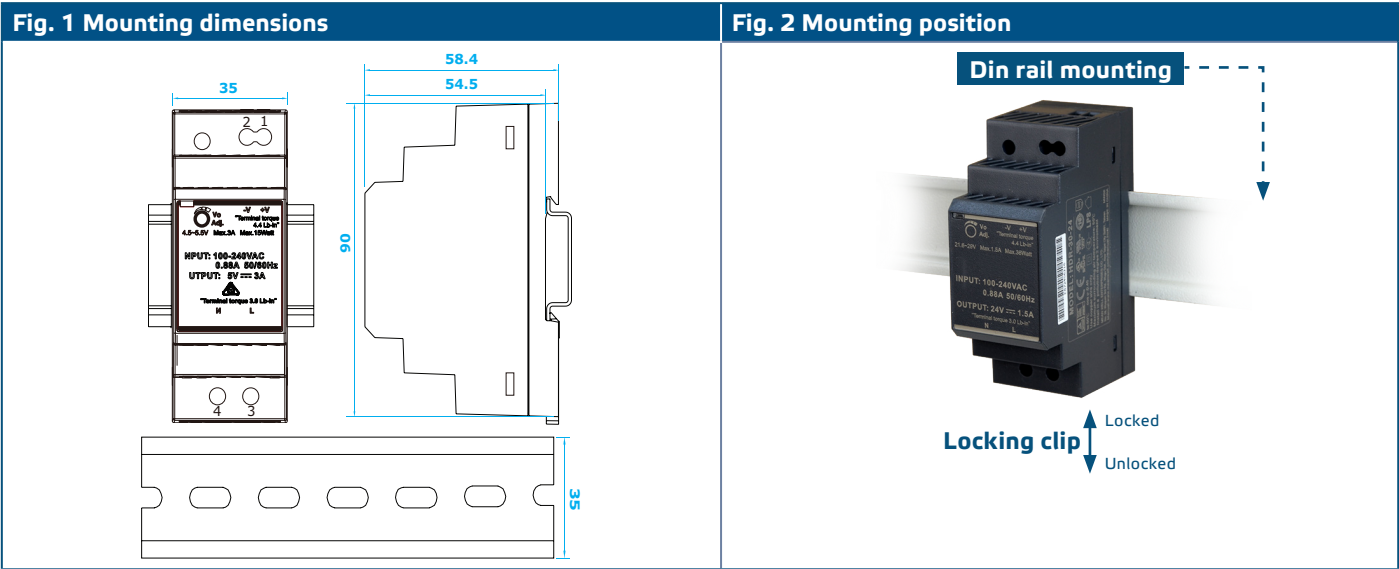
WIRING AND CONNECTIONS

Connections	
L	Supply voltage, line: 85—264 VAC / 47—63 Hz
N	Supply voltage, neutral: 85—264 VAC / 47—63 Hz
-V	GND, output voltage connection
+V	+ 24 VDC, output voltage connection

MOUNTING INSTRUCTIONS IN STEPS

Before you start mounting the DHDR8-24/36 power supply module, read carefully **“Safety and Precautions”**.  
Follow these steps:

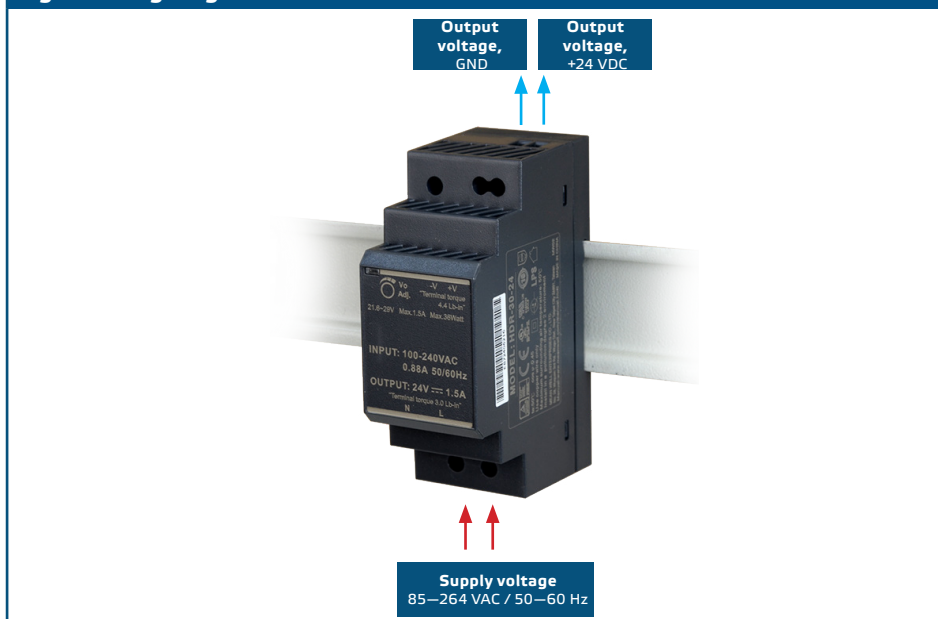
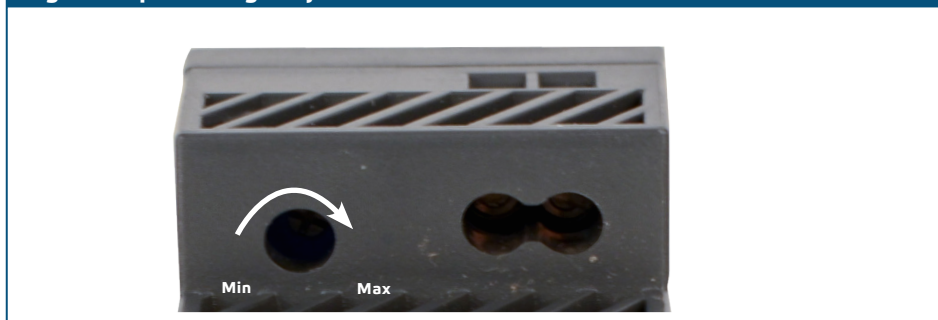
- Slide the unit along the guides of a TS35/7,5 or TS35/15 DIN rail and fix it to the rail by means of the locking clip at the back of the enclosure. Mind the correct position and mounting dimensions shown in **Fig. 1 Mounting dimensions** and **Fig. 2 Mounting position**.



**ATTENTION**

Mount the unit as shown in **Fig. 2** only, with input terminals down, or else sufficient cooling will not be possible.

2. Connect the mains supply to L and N (see **Fig. 3**) adhering to the information in section “**Wiring and connections**” above.
3. Connect the output to +V and -V.

**Fig. 3 Wiring diagram****Fig. 4 Output voltage adjustment trimmer**

4. Switch on the power supply.
5. Using a screwdriver, adjust the output voltage via the output voltage trimmer (see **Fig. 4**).

**ATTENTION**

*Risk of electrical shock and energy hazard. All failures should be examined by a qualified technician. Please do not remove the case of the power supply by yourself!*

**ATTENTION**

*Risk of fire and short circuit. The openings should be protected from foreign objects or dripping liquids.*

## VERIFICATION OF INSTALLATION

After switching on the power supply, the green LED should be ON (see **Fig. 5 Power OK indication**). If this is not the case, check the connections.

**Fig. 5 Power OK indication**



### ATTENTION

*High voltage! The unit is supplied with electrical energy at voltages high enough to inflict personal injury or threat to health. Avoid contact with the unit when in operation!*



### ATTENTION

*Hot surface! The surface of the unit may become hot and cause burns if touched. Avoid contact with the unit when in operation!*



### ATTENTION

*Disconnect and confirm that there is no live current flowing to the unit before servicing.*



### ATTENTION

*Avoid exposing the unit to direct sunlight!*

## TRANSPORT AND STORAGE

Avoid shocks and extreme conditions. Stock in original packing.

## WARRANTY AND RESTRICTIONS

Two years from the delivery date against defects in manufacturing. Any modifications or alterations to the product after the date of publication relieve the manufacturer of any responsibilities. The manufacturer bears no responsibility for any misprints or mistakes in this data.

## MAINTENANCE

In normal conditions these controllers are maintenance-free. If soiled, clean with a dry or damp cloth. In case of heavy pollution, clean with a non-aggressive product. In these circumstances, the unit should be disconnected from the main supply. Pay attention that no fluids enter the unit. Only reconnect the unit to the mains supply when it is completely dry.