# DIN100W24

*24V/100W Din Rail Power Supply*

■ Features:

• *Constant voltage design*

• *European AC input range*

• *Protections: Short circuit / Overload / Over voltage / Over temperature*

• *Cooling by free air convection*

• *Isolation class II*

• *Can be installed on DIN Rail TS-35/7 or 15*

• *MTBF 200.000 h*

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## ELECTRICAL SPECIFICATION

| MODEL | DIN100W24 |
|---|---|
| **OUTPUT** | |
| *Rated Voltage* | 24V |
| *Rated Current* | 4.15A |
| *Current Range* | 0 ÷ 4.15A |
| *Rated Power* | 100W |
| *No Output Voltage (max)* | 25.2V |
| *Voltage Adjustment Range [6]* | 22 – 28V |
| *Line Regulation* | ± 0.5% |
| *Load Regulation* | ± 1% |
| *Tolerance [3]* | ± 5% |
| *Ripple & Noise (max.) [2]* | 200mV$_{P-P}$ |
| *Setup, Rise Time [4]* | 400ms, 65ms / 230VAC at full load |
| *Hold up Time (typ.)* | 30ms / 230VAC at full load |

| INPUT | | | | | | |
|---|---|---|---|---|---|---|
| *Voltage Range* | 180 ÷ 264VAC | | | | | |
| *Frequency Range* | 47 ÷ 63Hz | | | | | |
| *Inrush current (max.)* | 40A at 230VAC cold start at 25℃ | | | | | |
| *Efficiency (typ.)* | 88.09% - Average (25%+50%+75%+100%)/4 | | | | | |
| *AC Current (typ.)* | 1.3A / 230VAC | | | | | |
| *Leakage current* | <1.5mA at 50/60Hz 240VAC INPUT | | | | | |
| *Max. No. Of PSU on Circuit Breaker* | B10 | B16 | C10 | C16 | D10 | D16 |
| | 5 | 8 | 5 | 8 | 11 | 17 |
| *No load Power Consumption (max.)* | <0.5W | | | | | |

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## PROTECTIONS

| | | |
|---|---|---|
| *Over Current* | Range 120 ÷ 200% | |
| | Type: hiccup mode. Recovers automatically after fault condition is removed. | |
| *Short Circuit* | Type: hiccup mode. Recovers automatically after fault condition is removed. | |
| *Over Voltage* | 30 - 48V | |
| | Type: hiccup mode. Recovers automatically after fault condition is removed. | |
| *Over Temperature* | Range: NTC detect | |
| | Type: shut down output voltage. Re-power on to recovery. | |

## WORKING ENVIRONMENT

| | |
|---|---|
| *Working Temperature* | -20°C ÷ +50°C, ambient derate each output at 4.0% per degree from 50℃ to 60℃ |
| *Operating humidity* | 5 ÷ 95% RH (non-condensing) |
| *Storage Temperature and Humidity* | -40°C ÷ +85°C, 5 ÷ 95% RH (non-condensing) |

## SAFETY and EMC REGULATIONS

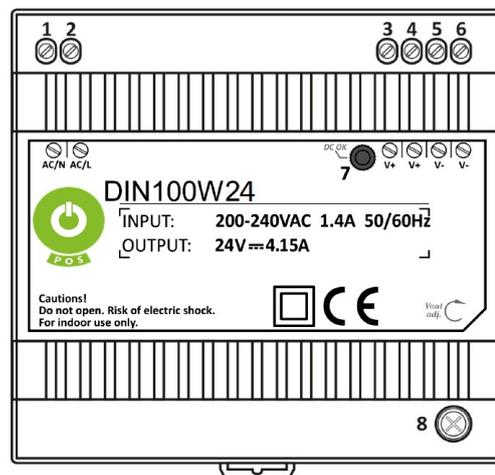| | |
|---|---|
| *Safety Standards* | Compliance to EN 62368-1 |
| *Withstand Voltage* | IN/OUT: 3kVAC, IN/GND: 2kVAC, OUT/GND: 0.5kVAC |
| *EMC Emission* | Compliance to EN55032 |
| *EMC Immunity* | Compliance to EN55035 |
| *Harmonic Current* | Compliance to EN61000-3-2; EN61000-3-3 |

## OTHERS

| | |
|---|---|
| *Dimensions* | 100 x 93 x 56mm (L x W x H) |
| *Weight and Packing* | 329g; 30pcs./box; weight box and dimensions: 10.3kg; 33.5 x 23.6 x 35.2 cm |

## MECHANICAL SPECIFICATION

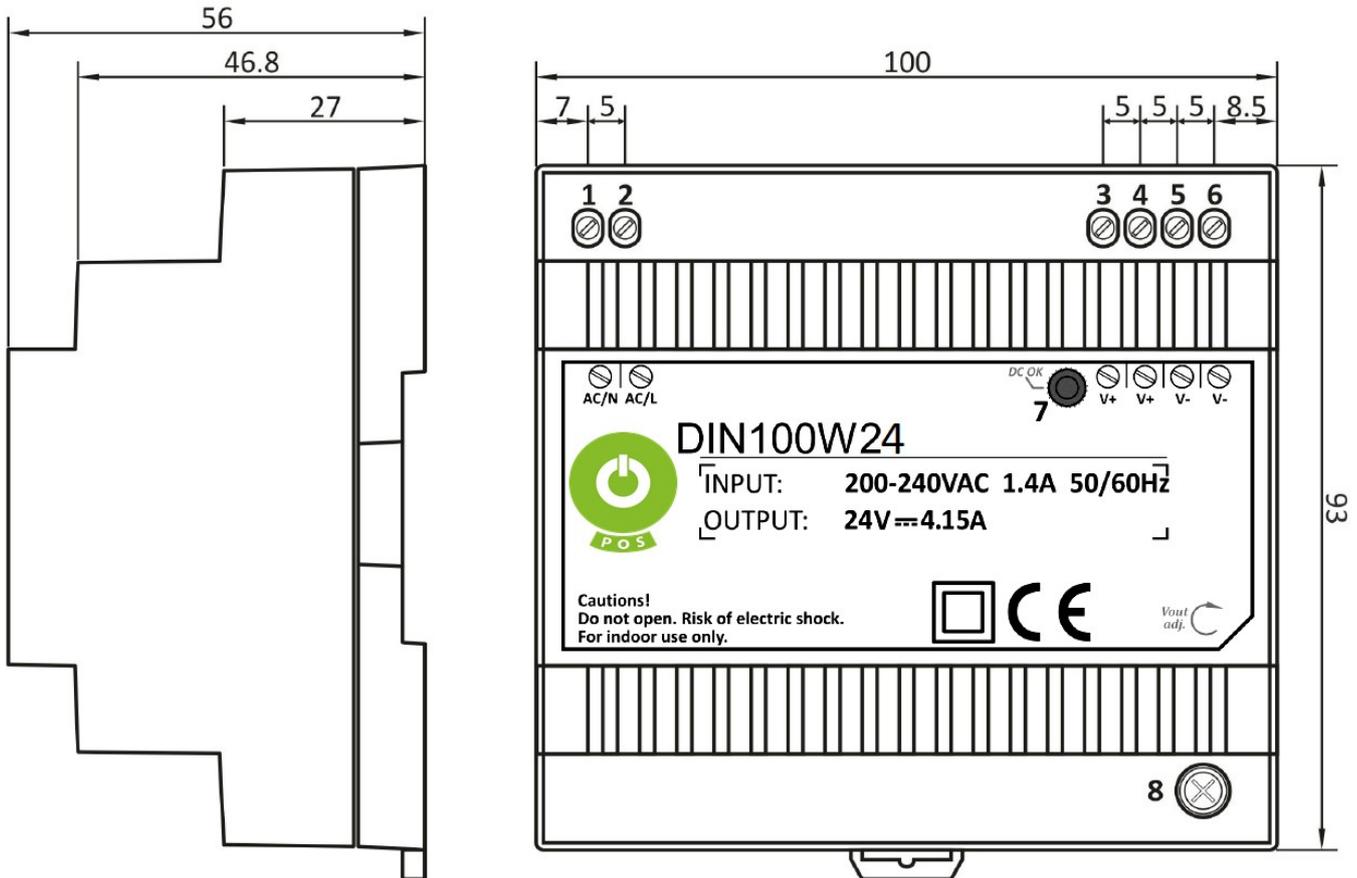| PIN ASSIGNMENT | |
|---|---|
| **NO.** | **Assignment** |
| 1 | Input: AC/N |
| 2 | Input: AC/L |
| 3,4 | Output: U$_{OUT}$ + |
| 5,6 | Output: U$_{OUT}$ - |
| 7 | LED indication for power on |
| 8 | U$_{OUT}$ adjustment |

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## MECHANICAL SPECIFICATION:



1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.

3. Tolerance includes set up tolerance, line regulation and load regulation.

4. Setup and rise time is measured from 0 to 90% rated output voltage.

5. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

6. By built-in potentiometer.

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