

DIN30W5

5V/20W 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



ELECTRICAL SPECIFICATION

SELV

| MODEL | DIN30W5 | | | | | |
|------------------------------------|---|-----|-----|-----|-----|-----|
| OUTPUT | | | | | | |
| Rated Voltage | 5V | | | | | |
| Rated Current | 4.0A | | | | | |
| Current Range | 0 ÷ 4.0A | | | | | |
| Rated Power | 20W | | | | | |
| No Output Voltage (max) | 5.4V | | | | | |
| Voltage Adjustment Range [6] | 4.25 – 5.75V | | | | | |
| Line Regulation | ± 1% | | | | | |
| Load Regulation | ± 2% | | | | | |
| Tolerance [3] | ± 5% | | | | | |
| Ripple & Noise (max.) [2] | 100mV _{P-P} | | | | | |
| Setup, Rise Time [4] | max. 550ms, max. 70ms / 230VAC at full load | | | | | |
| Hold up Time (typ.) | 55 ms at full load and 230VAC nominal line | | | | | |
| INPUT | | | | | | |
| Voltage Range | 180 ÷ 264VAC | | | | | |
| Frequency Range | 47 ÷ 63Hz | | | | | |
| Inrush current (max.) | 40A at 230VAC cold start at 25°C | | | | | |
| Efficiency (typ.) | >81.03% - Average (25%+50%+75%+100%) / 4 | | | | | |
| AC Current (typ.) | 0.45A / 230VAC | | | | | |
| Leakage current | <1.5mA at 50/60Hz 240VAC INPUT | | | | | |
| Max. No. Of PSU on Circuit Breaker | B10 | B16 | C10 | C16 | D10 | D16 |
| | 10 | 16 | 10 | 16 | 21 | 34 |
| No load Power Consumption (max.) | <0.5W | | | | | |

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PROTECTIONS

| | |
|-------------------------|---|
| Over Current | Range 120 ÷ 210% |
| | Type: hiccup mode. Recovers automatically after fault condition is removed. |
| Short Circuit | Type: hiccup mode. Recovers automatically after fault condition is removed. |
| | |
| Over Voltage | 9V-10V |
| | 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°C to 60°C |
| Operating humidity | 5% to 95% (non-condensing) |
| Storage Temperature and Humidity | -40°C ÷ +85°C, 5% to 95% (non-condensing) |

SAFETY and EMC REGULATIONS

| | |
|--------------------------|--|
| Safety Standards | Compliance to EN 62368-1 |
| Withstand Voltage | IN/OUT: 3.75kVAC |
| EMC Emission | Compliance to EN55032 |
| EMC Immunity | Compliance to EN55035 |
| Harmonic Current | Compliance to EN61000-3-3; EN61000-3-2 |

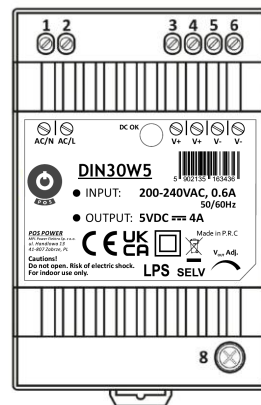
OTHERS

| | |
|---------------------------|--|
| Dimensions | 62.5 x 93 x 56mm (L x W x H) |
| Weight and Packing | 206g; 50pcs. /Box; weight box and dimensions: 11kg; 37.05 x 23.6 x 33.5 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 |

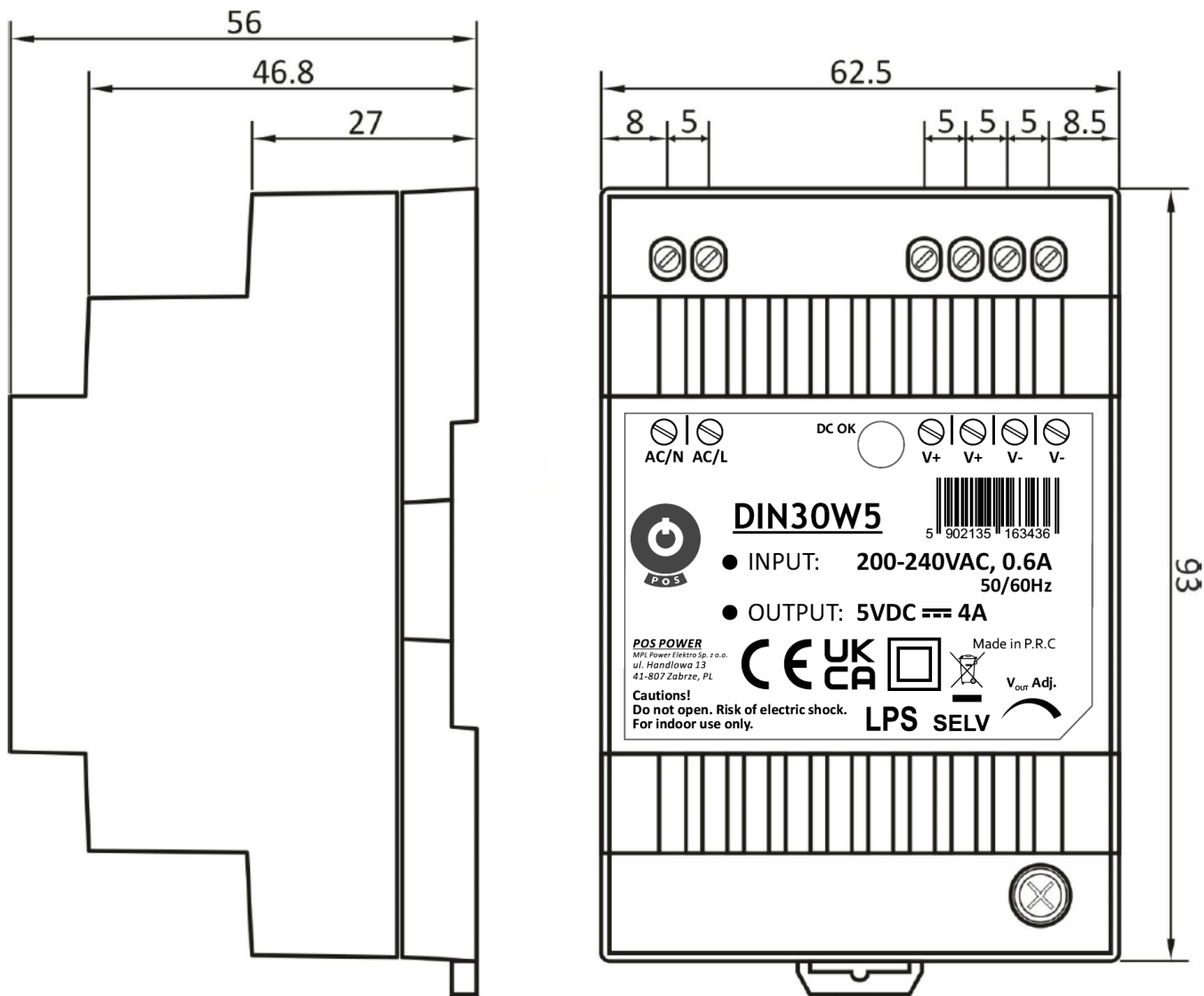


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MECHANICAL SPECIFICATION:



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.