

MDIN60W5

5V/40W Din Rail Power Supply



■ Features:

- Constant voltage design
- Universal input voltage 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 LPS 

| MODEL | MDIN60W5 |
|------------------------------|---|
| OUTPUT | |
| Rated Voltage | 5V |
| Rated Current | 8A |
| Current Range | 0 ÷ 8A |
| Rated Power | 40W |
| No Output Voltage (max) | 5.4V |
| Voltage Adjustment Range [6] | 4.25 – 5.75V |
| Line Regulation | ± 0.5% |
| Load Regulation | ± 1% |
| Tolerance [3] | ± 5% |
| Ripple & Noise (max.) [2] | 100V _{P-P} |
| Setup, Rise Time [4] | max. 460ms, max. 30ms / 230VAC at full load |
| Hold up Time (typ.) | 110ms at full load and 230VAC nominal line |

| INPUT | | | | | | |
|------------------------------------|-----|---|-----|-----|-----|-----|
| Voltage Range | | 90 ÷ 264VAC | | | | |
| Frequency Range | | 47 ÷ 63Hz | | | | |
| Inrush current (max.) | | 45A at 115VAC; 90A at 230VAC cold start at 25°C | | | | |
| Efficiency (typ.) | | 79,66% - Average (25%+50%+75%+100%) /4 | | | | |
| AC Current (typ.) | | 0.5A/ 230VAC, 1.0A/ 115VAC, | | | | |
| 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.) | | <1.0W | | | | |

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PROTECTIONS

| | |
|-------------------------|---|
| Over Current | Range 110 ÷ 140% |
| | Type: hiccup mode. Recovers automatically after fault condition is removed. |
| Short Circuit | Type: hiccup mode. |
| Over Voltage | 9-10V |
| | Type: shut down output voltage. Re-power on to recovery. |
| Over Temperature | Range: 110°C ± 10°C |
| | Type: shut down output voltage. Re-power on to recovery. |

WORKING ENVIRONMENT

| | |
|---|---|
| Working Temperature | -20°C to 50°C ambient derate each output at 4.0% per degree from 50°C to 60°C |
| 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 90 x 40mm (L x W x H) |
| Weight and Packing | 278g; 100pcs. /box; weight box and dimensions: 28.5kg; 56.5 x 48.2 x 24cm |

MECHANICAL SPECIFICATION

PIN ASSIGNMENT

| NO. | Assignment |
|-----|---------------------------------|
| 1 | Input: GND |
| 2 | Input: AC/N |
| 3 | Input: AC/L |
| 4,5 | Output: U _{OUT} + |
| 6,7 | Output: U _{OUT} - |
| 8,9 | Relay DC OK signal |
| 10 | SVR1: Output Voltage Adjustment |
| 11 | LED DC OK signal |

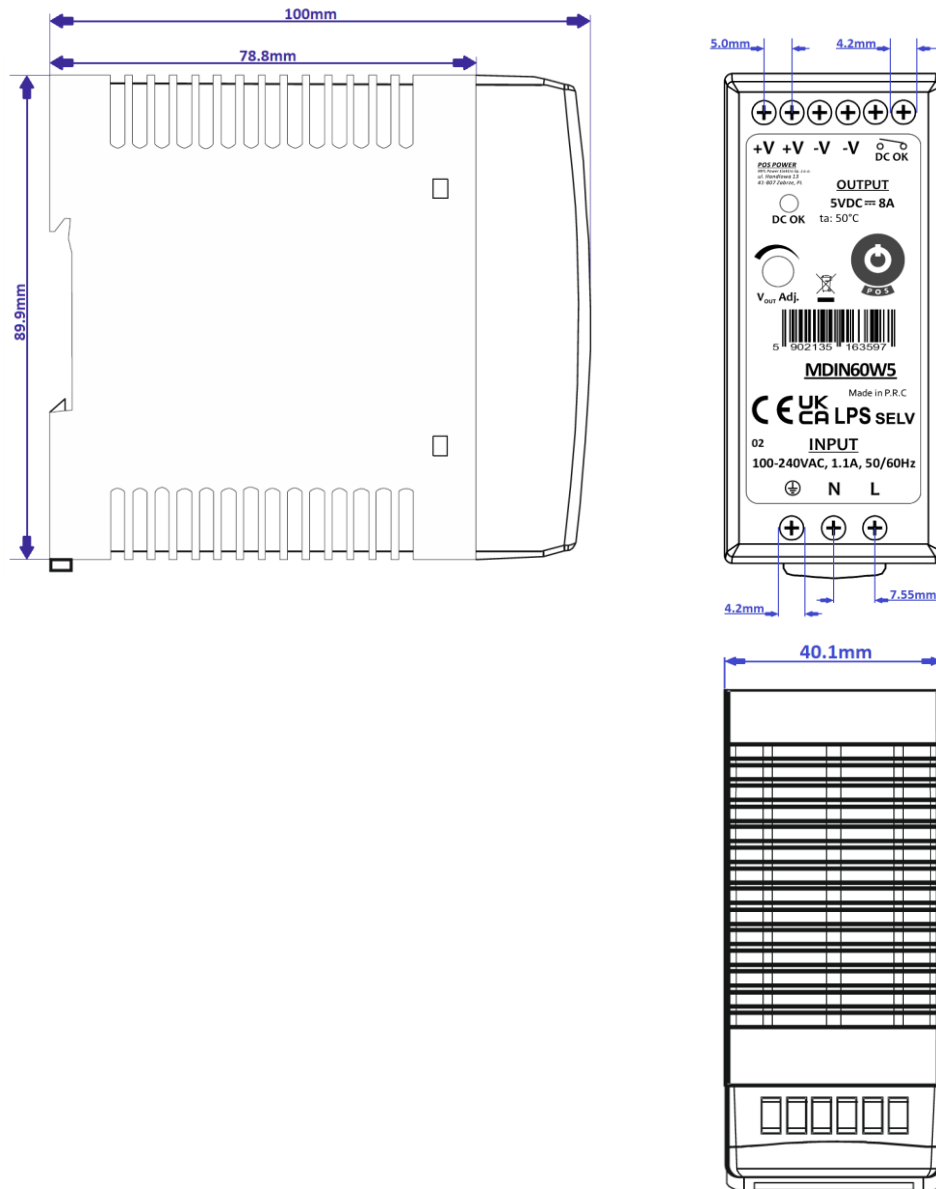


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MECHANICAL SPECIFICATION:



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.