MDIN100W48

48V/96W Din Rail Power Supply

■ Features:

- *Power Factor >0.9*
- *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*

SELV LPS CE

ELECTRICAL SPECIFICATION

MODEL	MDIN100W48					
OUTPUT						
Rated Voltage	48V					
Rated Current	2A					
Current Range	0 ÷ 2A					
Rated Power	96W					
No Output Voltage (max)	52V					
Voltage Adjustment Range [6]	41 – 55V					
Line Regulation	± 0.5%					
Load Regulation	± 1%					
Tolerance [3]	± 5%					
Ripple & Noise (max.) [2]	300mV$_{P-P}$					
Setup, Rise Time [4]	max. 400ms, max. 30ms / 230VAC at full load					
Hold up Time (typ.)	50ms 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℃					
Efficiency (typ.)	85.98% - Average (25%+50%+75%+100%) /4					
AC Current (typ.)	0.75A/ 230VAC, 1.5A/ 115VAC,					
Inrush current (max.)	45A at 115VAC; 90A at 230VAC cold start at 25℃					
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	5	8	5	8	11	17
No load Power Consumption (max.)	<2.0W					

MDIN100W48

48V/96W Din Rail Power Supply

PROTECTIONS

Over Current	Range 110 ÷ 140%
	Type: constant current limiting. Recovers automatically after fault condition is removed
Short Circuit	Type: constant current limiting. Recovers automatically after fault condition is removed
Over Voltage	72V
	Type: shut down output voltage. Re-power on to recovery.
Over Temperature	Range: 110°C ± 10°C
	Type: hiccup mode. Recovers automatically after fault condition is removed.

WORKING ENVIRONMENT

Working Temperature	-20℃ to 50℃ 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 EN61000-3-3; EN61000-3-2

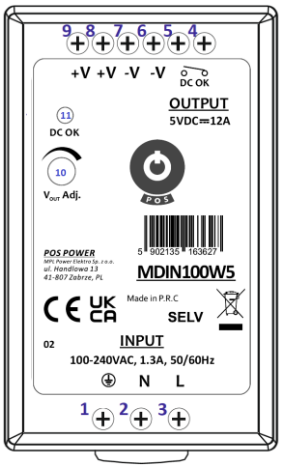
OTHERS

Dimensions	100 x 89.9 x 50mm (L x W x H)
Weight and Packing	361g; 80pcs. /box; weight box and dimensions: 31kg; 55.5 x 47 x 26.4cm

MECHANICAL SPECIFICATION

PIN ASSIGNMENT

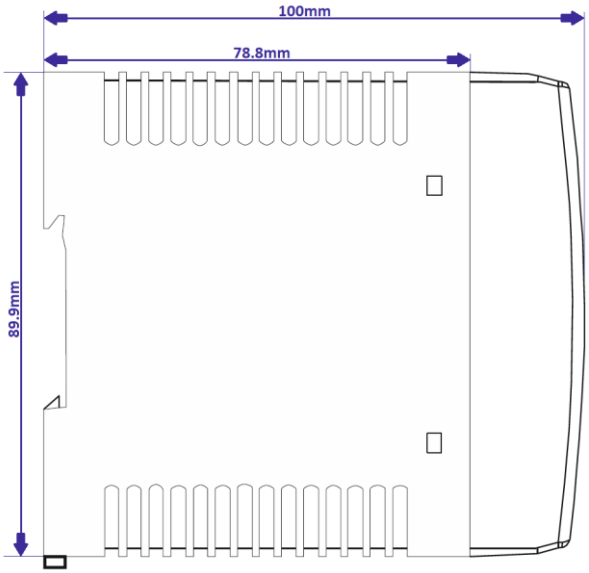
NO.	Assignment
1	Input: GND
2	Input: AC/N
3	Input: AC/L
4,5	Output: U_{OUT+}
6,7	Output: U_{OUT-}
8,9	Relay DC OK signal
10	SVR1: Output Voltage Adjustment
11	LED DC OK signal

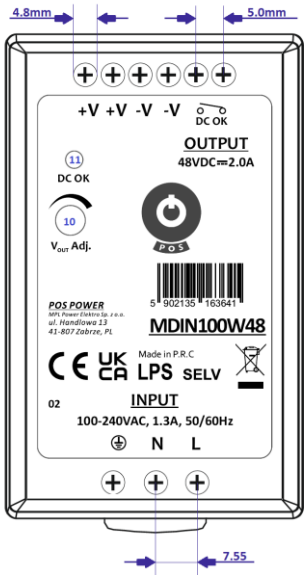


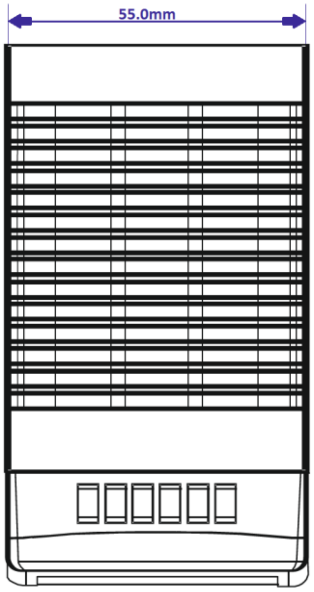
MDIN100W48

48V/96W Din Rail Power Supply

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.