MDIN20W24

24V/20W 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*

SELV LPS CE

ELECTRICAL SPECIFICATION

MODEL	MDIN20W24
OUTPUT	
Rated Voltage	24V
Rated Current	1A
Current Range	0 ÷ 1A
Rated Power	20W
No Output Voltage (max)	25.2V
Voltage Adjustment Range [6]	21 – 28V
Line Regulation	± 0.5%
Load Regulation	± 2%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	200mV$_{P-P}$
Setup,Rise Time [4]	max. 820ms, max. 70ms / 230VAC at full load
Hold up Time (typ.)	65 ms at full load and 230VAC nominal line

INPUT						
Voltage Range	90 ÷ 264VAC					
Frequency Range	47 ÷ 63Hz					
Inrush current (max.)	30A at 115VAC; 60A at 230VAC cold start at 25°C					
Efficiency (typ.)	81.83% - Average (25%+50%+75%+100%)/4					
AC Current (typ.)	0.15A / 230VAC, 0.42A / 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	28 - 31V
	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℃ 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 EN61000-3-2; EN61000-3-3

OTHERS

Dimensions	100 x 89.9 x 22.7mm (L x W x H)
Weight and Packing	135g; 100pcs./box; weight box and dimensions: 15.5kg; 58 x 35 x 21 cm

MECHANICAL SPECIFICATION

PIN ASSIGNMENT

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

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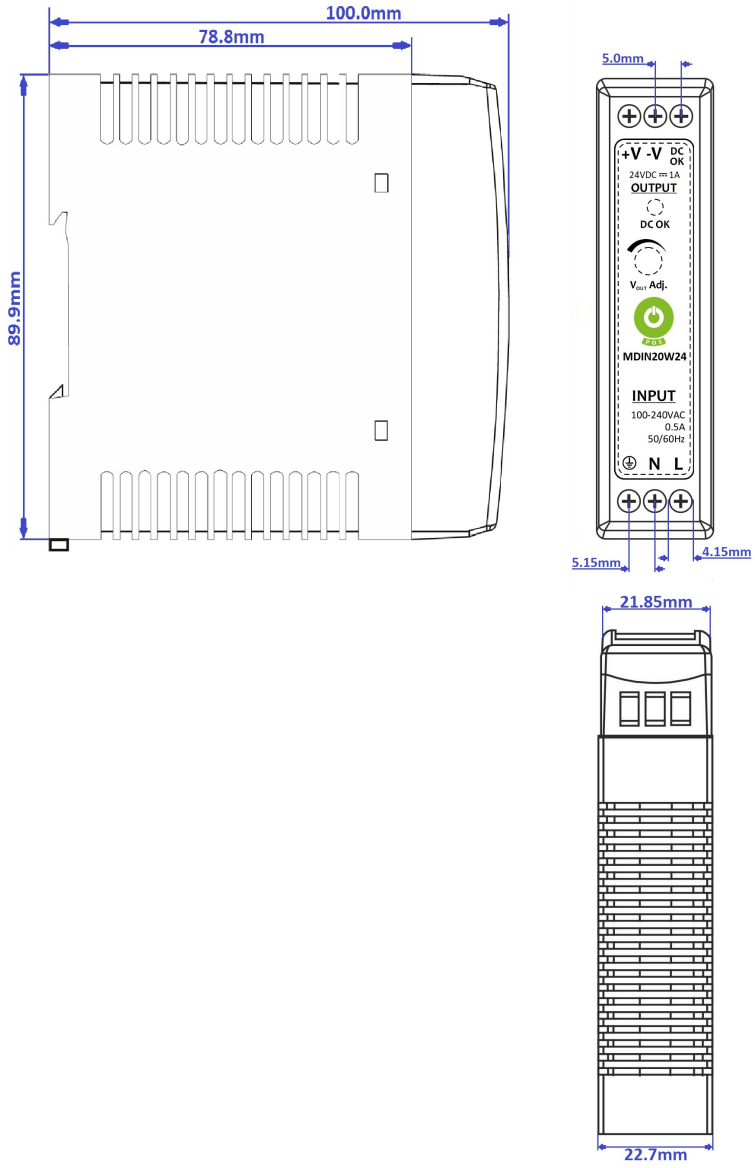
MECHANICAL SPECIFICATION:



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.