MDIN100W series

100W Constant Voltage Din Rail Power Supply

■ Features:

- *Constant voltage design*
- *Protections: Short circuit / Overload / Over voltage / Over temperature*
- *Cooling by free air convection*
- *Can be installed on DIN Rail TS-35/7.5 or 15*
- *Universal input voltage range*
- *Built-in active PFC function*
- *DC ok signal (Relay type)*

CE SELV LPS

◎ELECTRICAL SPECIFICATION

MODEL	MDIN100W12	MDIN100W24
OUTPUT		
Rated Voltage	12V	24V
Rated Current	7.5A	4.0A
Current Range	0 ÷ 7.5A	0 ÷ 4.0A
Rated Power	100W	96W
No Output Voltage (max.)	12.6V	25.2V
Voltage Adjustment Range (SVR1)	11.4 ÷ 14V	23 ÷ 28V
Line Regulation	± 0.5%	
Load Regulation	± 1%	
Voltage Tolerance [3]	± 5%	
Ripple & Noise (max.) [2]	200mV$_{P-P}$	
Setup, Rise Time [4]	max. 400ms, max. 100ms / 230VAC at full load	
Hold up Time (typ.)	50ms / 230VAC at full load	
INPUT		
Voltage Range	90 ÷ 264VAC	
Frequency Range	47 ÷ 63Hz	
Power Factor (typ.)	PF > 0.9 / 230VAC at full load	
Efficiency (typ.)	86.5%	85%
AC current (typ.)	0.75A / 230VAC, 1.5A / 115VAC,	
Inrush current (max.)	90A / 230VAC(25°C)	
No Load Power Consumption (max.)	2.0W	
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	14 ÷ 17V	28 ÷ 35V
	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.	

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WORKING ENVIRONMENT

Working Temperature	-20°C ÷ +50°C
Working Humidity	45 ÷ 85% RH non-condensing
Storage Temperature and Humidity	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

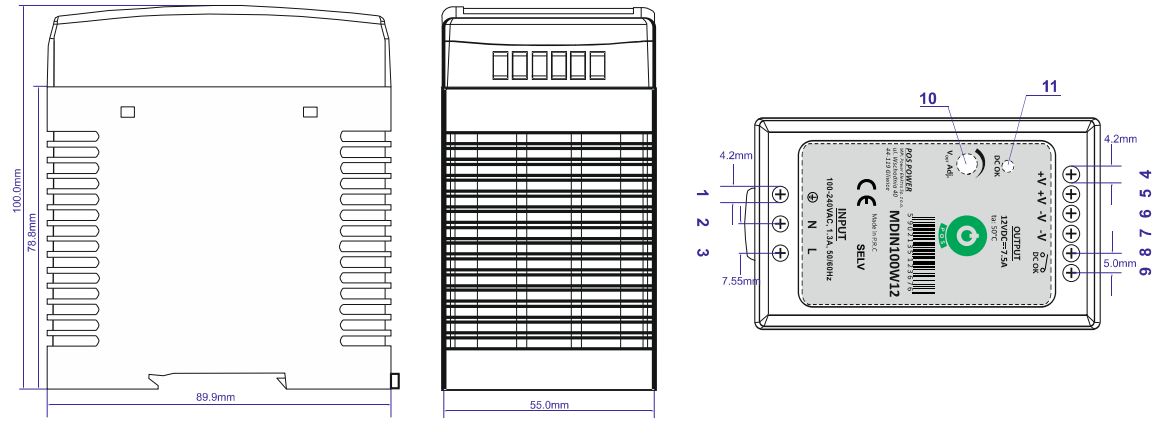
Safety Standards	Compliance to EN62368-1
Withstand Voltage	IN/OUT: 3kVAC, IN/GND: 2kVAC, OUT/GND: 0.5kVAC
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN55024
Harmonic Current	Compliance to EN61000-3-2, EN61000-3-3

OTHERS

Dimensions	100 x 90 x 40mm (L x W x H)
Weight and Packing	0.41kg; 24pcs./box; box weight and dimensions: 11kg; 45 x 22 x 22cm
EAN Code	5 902135 126240 5 902135 123690

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.

⊙MECHANICAL SPECIFICATION



PIN ASSIGNMENT

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