

# MDIN40W series

40W 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
- DC ok signal (Relay type)



## Ⓢ ELECTRICAL SPECIFICATION

MODEL	MDIN40W12	MDIN40W12
<b>OUTPUT</b>		
Rated Voltage	12V	24V
Rated Current	3.33A	1.7A
Current Range	0 ÷ 3.33A	0 ÷ 1.7A
Rated Power	40W	40W
No Output Voltage (max.)	12.6V	25.2V
Line Regulation	± 0.5%	
Load Regulation	± 1%	
Voltage Tolerance [3]	± 5%	
Ripple & Noise (max.) [2]	400mV <sub>p-p</sub>	
Setup, Rise Time [4]	max. 550ms, max. 15ms / 230VAC at full load	
Hold up Time (typ.)	55ms / 230VAC at full load	
<b>INPUT</b>		
Voltage Range	90 ÷ 264VAC	
Frequency Range	47 ÷ 63Hz	
Power Factor (typ.)	PF > 0.5 / 230VAC at full load	
Efficiency (typ.)	80%	82%
AC current (typ.)	0.4A / 230VAC, 0.7A / 115VAC,	
Inrush current (max.)	60A / 230VAC(25°C)	
No Load Power Consumption (max.)	1W	
<b>PROTECTIONS</b>		
Over Current	Range: 110 ÷ 140%	
	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Short Circuit	Type: hiccup mode.	
Over Voltage	14 ÷ 17V	28 ÷ 35V
	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.	

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## WORKING ENVIRONMENT

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

## SAFETY AND EMC REGULATIONS

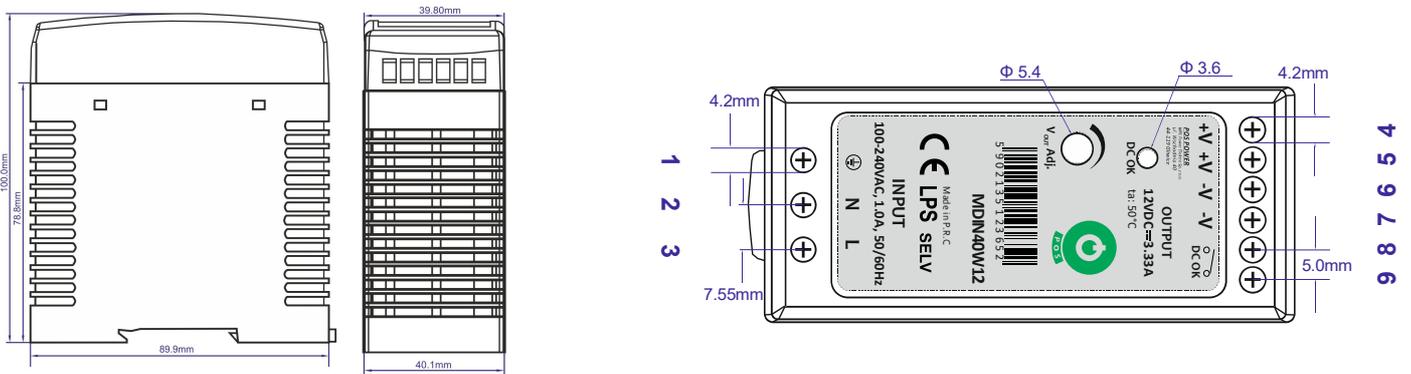
<b>Safety Standards</b>	Compliance to EN62368-1
<b>Withstand Voltage</b>	IN/OUT: 3kVAC, IN/GND: 2kVAC, OUT/GND: 0.5kVAC
<b>EMC Emission</b>	Compliance to EN55032
<b>EMC Immunity</b>	Compliance to EN55024
<b>Harmonic Current</b>	Compliance to EN61000-3-2, EN61000-3-3

## OTHERS

<b>Dimensions</b>	100 x 90 x 40mm (L x W x H)
<b>Weight and Packing</b>	0.28kg
<b>EAN Code</b>	 5 190 21 351 1 236 5 211  5 190 21 351 1 236 6 911

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
- Tolerance includes set up tolerance, line regulation and load regulation.
- Setup and rise time is measured from 0 to 90% rated output voltage.
- 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 <sub>OUT+</sub>
2	Input: AC/N	6,7	Output: U <sub>OUT-</sub>
3	Input: AC/L	8,9	Output: DCOK