DIN100W series

100W Din Rail Power Supply

■Features:

- Constant voltage design
- European AC input 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

CE SELV

ELECTRICAL SPECIFICATION

MODEL	DIN100W12	DIN100W15	DIN100W24
Rated Voltage	12V	15V	24V
Rated Current	8.3A	6.6A	4.15A
Current Range	0 ÷ 8.3A	0 ÷ 6.6A	0 ÷ 4.15A
Rated Power	100W	99W	100W
No Output Voltage (max.)	12.6V	16V	26.05.2022
Voltage Adjustment Range [6]	10.7 – 13.5V	13.5 - 17V	22 – 28V
Line Reglation	± 1%		
Load Reglation	± 2%		
Voltage Tolerance [3]	± 5%		
Ripple & Noise (max.) [2]	240mV$_{P-P}$		320mV$_{P-P}$
Setup, Rise Time [4]	400ms, 65ms / 230VAC at full load		
Hold up Time (typ., at full load)	30ms / 230VAC		30ms / 230VAC

INPUT						
Voltage Range	180 ÷ 264VAC					
Frequency Range	47 ÷ 63Hz					
Power Factor (typ.)	PF > 0.5 / 230VAC pod pełnym obciążeniem					
Efficiency (typ.)	86%				90%	
AC current (typ.)	0.9A / 230VAC					
Inrush current (max.)	40A / 230VAC; T_{WIDTH} (50% peak) = 670µs					
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	5	8	5	8	11	17
No Load Power Consumption (max.)	< 0.5W					

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PROTECTIONS

Over Current	Range: 120 ÷ 200%		
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Voltage	16-24V	22-30V	30-48V
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Temperature	Range: NTC detect		
	Type: shut down output voltage. Re-power on to recovery.		

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: 3.75kVAC
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN55035
Harmonic Current	Compliance to EN 61000-3-3; EN 61000-3-2

OTHERS

Dimensions	100 x 93 x 56mm (L x W x H)
Weight and Packing	0.33kg; 30pcs./box; weiht box and dimensions: 9.9kg; 33.5 x 23.6 x 35.2 cm
EAN Code	5 902135 137963 / 5 902135 152959 / 5 902135 137970

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.

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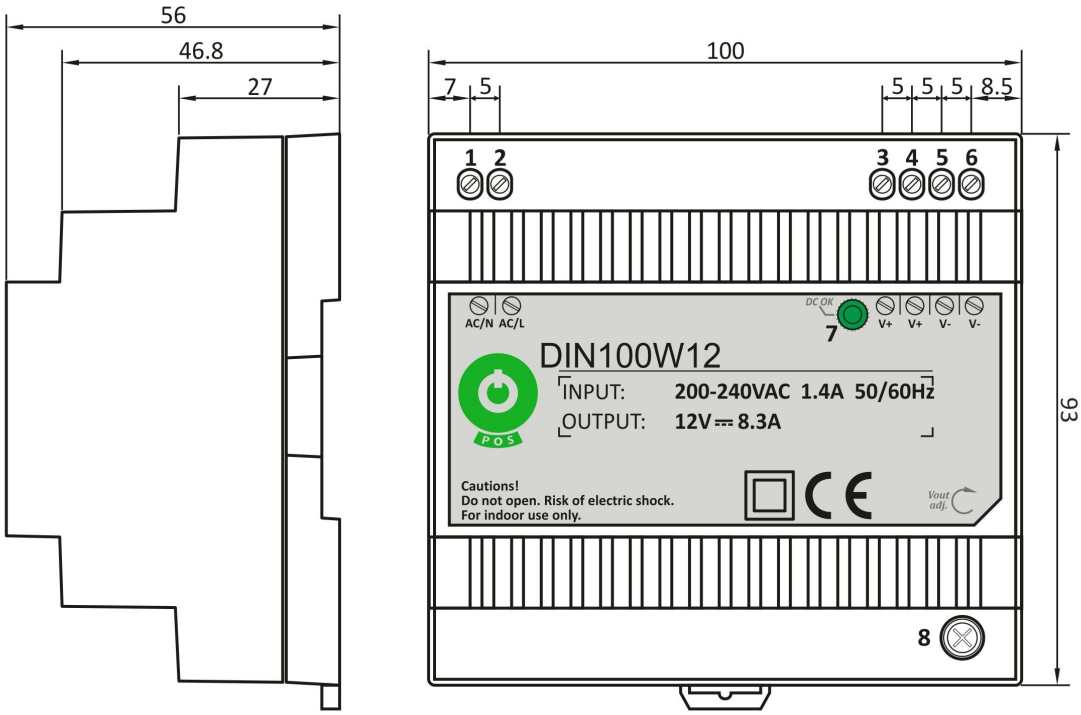
MECHANICAL SPECIFICATION



PIN ASSIGNMENT

No.	Assignment	No.	Assignment
1	Input: AC/N	3,4	Output: U_{OUT} +
2	Input: AC/L	5,6	Output: U_{OUT} -
		7	LED indication for power on
		8	U_{OUT} adjustment