# **DIN100W** series

100W Din Rail Power Supply





#### ■ Features:

- European AC input range
- 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
- Isolation class II
- LED indicator for power on



### **ELECTRICAL SPECIFICATION**

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MODEL	DIN100W12	DIN100W24		
OUTPUT				
RATED VOLTAGE	12V	24V		
RATED CURRENT	8.3A	4.15A		
CURRENT RANGE	0 ÷ 8.3A	0 ÷ 1.25A		
RATED POWER	99.6W	99.6W		
VOLTAGE ADJUSTMENT RANGE [4]	10.8 ÷ 13.8V	21.6 ÷ 28V		
LINE REGULATION	± 1%	± 1%		
LOAD REGULATION	± 1%			
VOLTAGE TOLERANCE [3]	± 2%	± 2%		
RIPPLE & NOISE (max.) [2]	240mV <sub>P-P</sub>	360mV <sub>P-P</sub>		
INPUT				
VOLTAGE RANGE	180 ÷ 264VAC			
FREQUENCY RANGE	47 ÷ 63Hz			
EFFICIENCY (typ.)	87%	88%		
AC CURRENT (typ.)	1.3A/230VAC			
INRUSH CURRENT (typ.)	40A / 230VAC(25°C)	40A / 230VAC(25°C)		
LEAKAGE CURRENT (max.)	1mA / 230VAC	1mA / 230VAC		
PROTECTIONS				
OVERLOAD	Range: 110 ÷ 160% rated power			
	Type: hiccup mode. recovers automatically after fault condition is removed			
SHORT CIRCUIT	Type: hiccup mode. recovers automatically a	Type: hiccup mode. recovers automatically after fault condition is removed		
OVER VOLTAGE	16 ÷ 23V	30 ÷ 40V		
	Type: shut off output voltage. Re-power on to recover.			
OVER TEMPERATURE	Range: 135°C ÷ 165°C detect on main control IC			
	Type: shut off, recovers automatically after temperature goes down			

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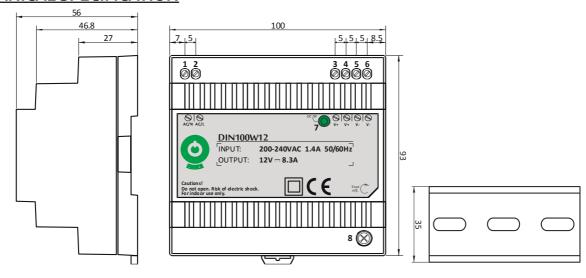
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ENVIRONMENT				
WORKING TEMPERATURE	-20°C ÷ 50°C			
WORKING HUMIDITY	20 ÷ 98% RH non-condensing			
STORAGE TEMPERATURE AND HUMIDITY	-30°C ÷ 70°C, 10 ÷ 98% RH non-condensing			
TEMPERATURE COEFFICIENT	± 0.05% / °C (-20°C ÷ 45°C)			
VIBRATION	10 ÷ 500Hz, 2G, 10min / cycle, period for 30min. each along X, Y, Z axes			
SAFETY & EMC REGULATIONS				
SFAETY STANDARDS	Compliance to EN60950-1			
WITHSTAND VOLTAGE	I-P/O-P: 4.2kVDC/30s			
ISOLATION RESISTANCE	I-P/O-P: 100MΩ/500VDC/25°C/70%			
EMC EMISSION	Compliance to EN55022			
EMC IMMUNITY	Compliance to EN55024			
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2			
OTHERS				
DIMENSIONS	100 x 93 x 56mm (L x W x H)			
WEIGHT AND PACKING	0.31kg; 30pcs./box; box weight and dimensions: 10.2kg; 32.7 x 21.6 x 33.5cm			

- 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  $0.1\mu F$  i  $47\mu F$  parallel capacitor.
- 3. Tolerance incudes set up tolerance, line regulation and load regulation.
- 4. By built-in potentiometer.
- 5. Power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment must be re-qualify to comply with EMC Directives.

#### **MECHANICAL SPECIFICATION**



PIN ASSIGNMENT				
No.	Assignment	No.	Assignment	
1	Input: AC/N	5,6	Output: U <sub>OUT</sub> -	
2	Input: AC/L	7	LED indication for power on	
3,4	Output: U <sub>ouт</sub> +	8	U <sub>out</sub> adjustment	