

# DIN60W series

60W 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

MODEL	DIN60W12	DIN60W24
<b>OUTPUT</b>		
<b>RATED VOLTAGE</b>	12V	24V
<b>RATED CURRENT</b>	5A	2.5A
<b>CURRENT RANGE</b>	0 ÷ 5A	0 ÷ 2.5A
<b>RATED POWER</b>	60W	
<b>VOLTAGE ADJUSTMENT RANGE [4]</b>	10.7 ÷ 13.5V	22 ÷ 28.5V
<b>LINE REGULATION</b>	± 1%	
<b>LOAD REGULATION</b>	± 1%	
<b>VOLTAGE TOLERANCE [3]</b>	± 2%	
<b>RIPPLE &amp; NOISE (max.) [2]</b>	240mV <sub>p-p</sub>	360mV <sub>p-p</sub>
<b>INPUT</b>		
<b>VOLTAGE RANGE</b>	180 ÷ 264VAC	
<b>FREQUENCY RANGE</b>	47 ÷ 63Hz	
<b>EFFICIENCY (typ.)</b>	84%	87%
<b>AC CURRENT (typ.)</b>	0.7A/230VAC	
<b>INRUSH CURRENT (typ.)</b>	40A / 230VAC(25°C)	
<b>LEAKAGE CURRENT (max.)</b>	1mA / 230VAC	
<b>PROTECTIONS</b>		
<b>OVERLOAD</b>	Range: 120 ÷ 180% rated power	
	Type: hiccup mode. recovers automatically after fault condition is removed	
<b>SHORT CIRCUIT</b>	Type: hiccup mode. recovers automatically after fault condition is removed	
<b>OVER VOLTAGE</b>	18 ÷ 23V	36 ÷ 45V
	Type: shut off output voltage. Re-power on to recover.	
<b>OVER TEMPERATURE</b>	Range: 135°C ÷ 165°C detect on main control IC	
	Type: shut off, recovers automatically after temperature goes down	

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## ENVIRONMENT

<b>WORKING TEMPERATURE</b>	-20°C ÷ 50°C
<b>WORKING HUMIDITY</b>	20 ÷ 98% RH non-condensing
<b>STORAGE TEMPERATURE AND HUMIDITY</b>	-30°C ÷ 70°C, 10 ÷ 98% RH non-condensing
<b>TEMPERATURE COEFFICIENT</b>	± 0.05% / °C (-20°C ÷ 45°C)
<b>VIBRATION</b>	10 ÷ 500Hz, 2G, 10min / cycle, period for 30min. each along X, Y, Z axes

## SAFETY & EMC REGULATIONS

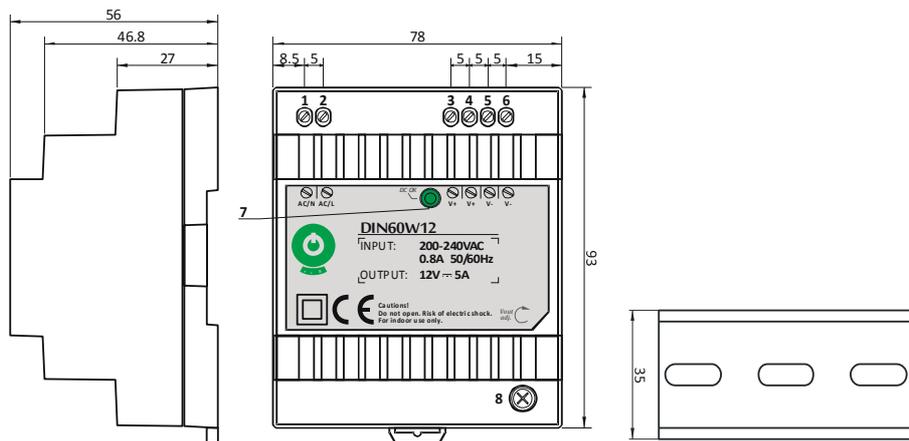
<b>SAFETY STANDARDS</b>	Compliance to EN60950-1
<b>WITHSTAND VOLTAGE</b>	I-P/O-P: 4.2kVDC/30s
<b>ISOLATION RESISTANCE</b>	I-P/O-P: 100MΩ/500VDC/25°C/70%
<b>EMC EMISSION</b>	Compliance to EN55022
<b>EMC IMMUNITY</b>	Compliance to EN55024
<b>HARMONIC CURRENT</b>	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

<b>DIMENSIONS</b>	78 x 93 x 56mm (L x W x H)
<b>WEIGHT AND PACKING</b>	0.27kg; 50pcs./box; box weight and dimensions: 14.5kg; 42.8 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 0.1μF i 47μF parallel capacitor.
3. Tolerance includes 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>OUT</sub> +	8	U <sub>OUT</sub> adjustment