

# DIN30W series

30W 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	DIN30W12	DIN30W15	DIN30W24
OUTPUT			
RATED VOLTAGE	12V	15V	24V
RATED CURRENT	2.5A	2.0A	1.25A
CURRENT RANGE	0 ÷ 2.5A	0 ÷ 2.0A	0 ÷ 1.25A
RATED POWER	30W		
VOLTAGE ADJUSTMENT RANGE [4]	10.8 ÷ 13.6V	13.5 ÷ 16.5V	21.6 ÷ 28.5V
LINE REGULATION	± 1%		
LOAD REGULATION	± 1%		
VOLTAGE TOLERANCE [3]	± 2%		
RIPPLE & NOISE (max.) [2]	240mV <sub>p-p</sub>	300mV <sub>p-p</sub>	360mV <sub>p-p</sub>
INPUT			
VOLTAGE RANGE	180 ÷ 264VAC		
FREQUENCY RANGE	47 ÷ 63Hz		
EFFICIENCY (typ.)	84%	84%	85%
AC CURRENT (typ.)	0.45A/230VAC		
INRUSH CURRENT (typ.)	40A / 230VAC(25°C)		
LEAKAGE CURRENT (max.)	1mA / 230VAC		
PROTECTIONS			
OVERLOAD	Range: 140 ÷ 210% rated power		
	Type: hiccup mode. recovers automatically after fault condition is removed		
SHORT CIRCUIT	Type: hiccup mode. recovers automatically after fault condition is removed		
OVER VOLTAGE	18 ÷ 23V	24 ÷ 30V	36 ÷ 45V
	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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## 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

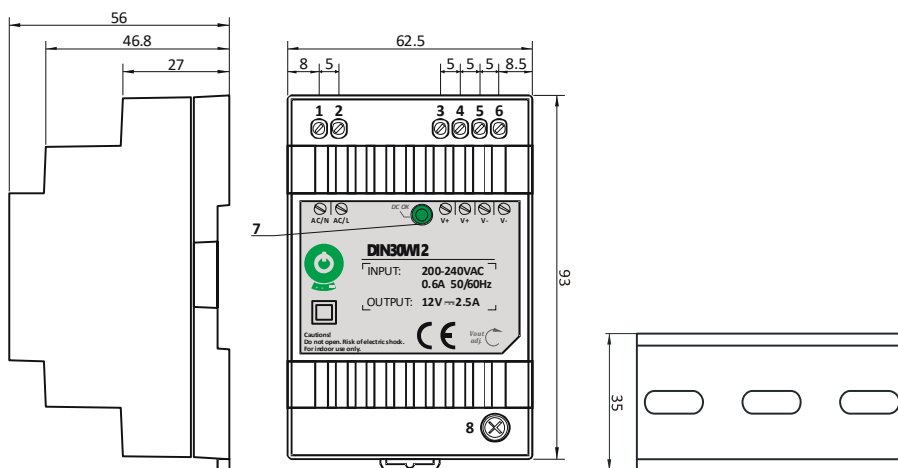
SFAETY STANDARDS	Compliance to EN60950-1
WITHSTAND VOLTAGE	I-P/O-P: 4.2kVDC/30s
ISOLATION RESISTANCE	I-P/O-P: 100MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55022
EMC IMMUNITY	Compliance to EN55024
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

DIMENSIONS	62.5 x 93 x 56mm (L x W x H)
WEIGHT AND PACKING	0.2kg; 50pcs./box; box weight and dimensions: 11kg; 35.3 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