

DIN15W series

15W Din Rail Power Supply



■ Features:

- European AC input range
- Protections: Short circuit / Overload / Over voltage
- 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	DIN15W12	DIN15W15	DIN15W24
OUTPUT			
RATED VOLTAGE	12V	15V	24V
RATED CURRENT	1.25A	1A	0.63A
CURRENT RANGE	0 ÷ 1.25A	0 ÷ 1A	0 ÷ 0.63A
RATED POWER	15W	15W	15.12W
VOLTAGE ADJUSTMENT RANGE [4]	10.5 ÷ 13.8V	13.5 ÷ 16.5V	21.6 ÷ 28.5V
LINE REGULATION	± 1%		
LOAD REGULATION	± 1%		
VOLTAGE TOLERANCE [3]	± 2%		
RIPPLE & NOISE (max.) [2]	240mV _{p.p}	270mV _{p.p}	300mV _{p.p}
INPUT			
VOLTAGE RANGE	180 ÷ 264VAC		
FREQUENCY RANGE	47 ÷ 63Hz		
EFFICIENCY (typ.)	81.5%	82%	82.5%
AC CURRENT (typ.)	0.35A/230VAC		
INRUSH CURRENT (typ.)	75A / 230VAC(25°C)		
LEAKAGE CURRENT (max.)	1mA / 230VAC		
PROTECTIONS			
OVERLOAD	Range: 160 ÷ 210% rated power		
	Type: over power limiting to 50% Uout + hiccup mode. recovers automatically after fault condition is removed		
SHORT CIRCUIT	Type: hiccup mode. recovers automatically after fault condition is removed		
OVER VOLTAGE	14 ÷ 16.5V	17 ÷ 27V	28 ÷ 33V
	Type: one-time, clamping by zener diode.		

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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

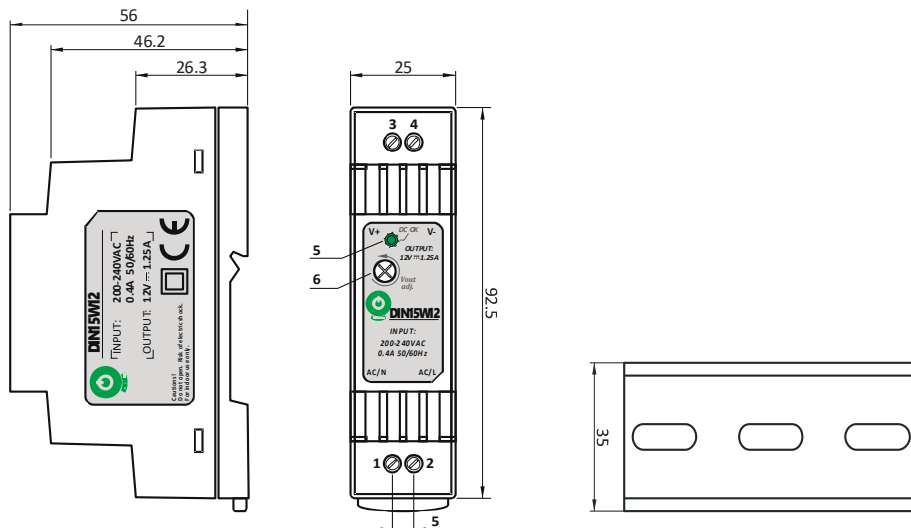
SAFETY STANDARDS	Compliance to EN60950-1
WITHSTAND VOLTAGE	I-P/O-P: 4.2kVDC/30s
ISOLATION RESISTANCE	I-P/O-P: 100MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55022
EMC IMMUNITY	Compliance to EN55024
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

DIMENSIONS	25 x 92.5 x 56mm (L x W x H)
WEIGHT AND PACKING	0.1kg; 100pcs./box; box weight and dimensions: 10.2kg; 32.7 x 21.6 x 34cm

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/L	4	Output: U _{OUT} -
2	Input: AC/N	5	LED indication for power on
3	Output: U _{OUT} +	6	U _{OUT} adjustment