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

CED ELECTRICAL SPECIFICATION

MODEL	DIN30W12	DIN30W24		
OUTPUT				
RATED VOLTAGE	12V	24V		
RATED CURRENT	2.5A	1.25A		
CURRENT RANGE	0 ÷ 2.5A	0 ÷ 1.25A		
RATED POWER	30W			
VOLTAGE ADJUSTMENT RANGE [4]	10.8 ÷ 13.6V	21.6 ÷ 28.5V		
LINE REGULATION	± 1%			
LOAD REGULATION	± 1%			
VOLTAGE TOLERANCE [3]	± 2%			
RIPPLE & NOISE (max.) [2]	240mV _{P-P}	360mV _{P-P}		
INPUT				
VOLTAGE RANGE	180 ÷ 264VAC			
FREQUENCY RANGE	47 ÷ 63Hz			
EFFICIENCY (typ.)	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	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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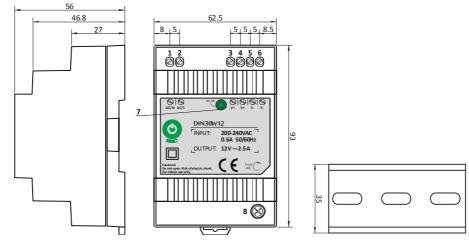
ENVIRONMENT				
WORKING TEMPERATURE	-20°C ÷ 50°C			
WORKING HUMIDITY				
	20 ÷ 98% RH non-condensing			
	-30°C ÷ 70°C, 10 ÷ 98% RH non-condensing			
TEMPERATURE COEFFICIENT	± 0.05% / °C (-20°C ÷ 45°C)			
VIBRATION	10 ÷ 500Hz, 2G, 10min / cycle, period for 30min. each along X, Y, Z axes			
SAFETY & EMC 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^n twisted pair-wire terminated with a 0.1μ F i 47μ 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



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