DIN30W series

30W Din Rail Power Supply





■Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
 - Cooling by free air convection
 - Isolation class II
 - Can be installed on DIN Rail TS-35/7 or 15



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	30W	30W	
No Output Voltage (max.)	12.6V	16V	25.2V	
Voltage Adjustment Range [6]	10.8 – 13.6V	13.5 – 16.5V	22 – 28V	
Line Reglation	± 1%			
Load Reglation	± 2%			
Voltage Tolerance [3]	± 5%			
Ripple & Noise (max.) [2]	240mV _{P-P}	240mV _{P-P}	320mV _{P-P}	
Setup, Rise Time [4]	500ms, 60ms / 230VAC at full load			
Hold up Time (typ., at full load)	20ms / 230VAC	30ms / 230VAC	30ms / 230VAC	

INPUT						
Voltage Range	180 ÷ 264VAC					
Frequency Range	47 ÷ 63Hz					
Efficiency (typ.)	84%		85%		85%	
AC current (typ.)	0.45A / 230VAC					
Inrush current (max.)	28A / 230VAC; T _{WIDTH} (50% peak) = 550μs					
Max. No. Of PSU on Circuit	B10	B16	C10	C16	D10	D16
Breaker	10	16	10	16	21	34
No Load Power Consumption (max.)	< 0.5W					

PROTECTIONS

DIN30W-spec-EN-R3 21.08.2023 1/3

DIN30W series





Over Comment	Range: 120 ÷ 210%				
Over Current	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	
Over Voltage	Type: hiccup mode. Recovers automatically after fault condition is removed.				
Over Terrere exeture	Range: NTC detect				
Over Temperature	Type: shut down output voltag	ge. Re-power on to recove	ery.		

WORKING ENVIRONMENT			
Working Temperature	-20°C ÷ +50°C		
Working Humidity 45 ÷ 85% RH non-condensing			
Storage Temperature and Humidity	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing		

SAFETY AND EMC REGULATIONS			
Safety Standards	Compliance to EN62368-1		
Withstand Voltage	IN/OUT: 3.75kVAC		
EMC Emission	Compliance to EN55032		
EMC Immunity Compliance to EN55035			
Harmonic Current Compliance to EN 61000-3-3; EN 61000-3-2			

OTHERS				
Dimensions	62.5 x 93 x 56mm (L x W x H)			
Weight and Packing	0.210kg; 50pcs./box; weiht box and	0.210kg; 50pcs./box; weiht box and dimensions: 11kg; 37.05 x 23.6 x 33.5cm		
EAN Code	5 9 0 2 1 3 5 1 3 7 9 2 5	5 19 018 85 120 04 60 1	5 9 0 2 1 3 5 1 3 7 9 3 2 1	

- 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 includes set up tolerance, line regulation and load regulation.
- 4. Setup and rise time is measured from 0 to 90% rated output voltage.
- 5.Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.
- 6. By built-in potentiometer.

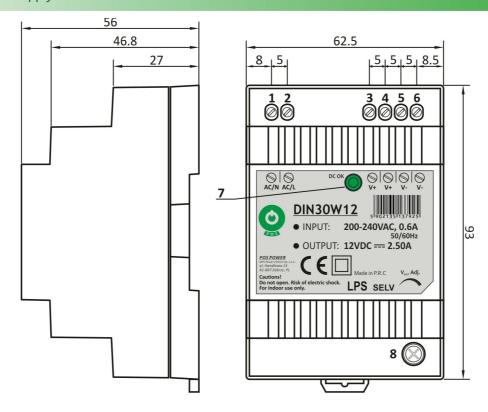
MECHANICAL SPECIFICATION

DIN30W-spec-EN-R3 21.08.2023 2/3

DIN30W series

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

DIN30W-spec-EN-R3 21.08.2023 3/3