# **DIN30W** series

30W Din Rail Power Supply



#### ■Features:



• Protections: Short circuit / Overload / Over voltage / Over temperature

• Cooling by free air convection

• Constant voltage design

• European AC input range

• Isolation class II

• Can be installed on DIN Rail TS-35/7 or 15



### ELECTRICAL SPECIFICATION

MODEL	DIN30W12	DIN30W15	DIN30W24
Ουτρυτ			
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 <sub>P-P</sub>	240mV <sub>P-P</sub>	320mV <sub>P-P</sub>
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; Τ <sub>WIDTH</sub> (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

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Over Current	Range: 120 ÷ 210%			
	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: hiccup mode. Recovers automatically after fault condition is removed.			
Over Temperature	Range: NTC detect			
	Type: shut down outpu	t voltage. Re-power on to recovery.		

### 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 1 3 7 9 2 5	5 9 0 1 8 8 5 2 0 0 4 6 0	5 19 02 13 5 13 7 9 32		

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

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Pos

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	PIN ASSIGNMENT				
No.	Assignment	No.	Assignment		
1	Input: AC/N	3,4	Output: U <sub>our</sub> +		
2	Input: AC/L	5,6	Output: U <sub>out</sub> -		
		7	LED indication for power on		
		8	Uouradjustment		