MDIN20W12

12V/20W Din Rail Power Supply



■ Features:

- Constant voltage design
- Universal input voltage 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
 - MTBF 200.000 h

ELECTRICAL SPECIFICATION

SELVLPSCE

MODEL	MDIN20W12
OUTPUT	
Rated Voltage	12V
Rated Current	1.67A
Current Range	0 ÷ 1.67A
Rated Power	20W
No Output Voltage (max)	12.6V
Voltage Adjustment Range [6]	11 – 13.80V
Line Regulation	± 0.5%
Load Regulation	± 2%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	150mV _{P-P}
Setup,Rise Time [4]	max. 820ms, max. 70ms / 230VAC at full load
Hold up Time (typ.)	65ms at full load and 230VAC nominal line

INPUT						
Voltage Range	90 ÷ 264V	90 ÷ 264VAC				
Frequency Range	47 ÷ 63Hz	47 ÷ 63Hz				
Inrush current (max.)	30A at 115	VAC; 60A at 230\	/AC cold start at 2	25°C		
Efficiency (typ.)	80.07% - A	verage (25%+50%	%+75%+100%)/4			
AC Current (typ.)	0.15A / 23	0VAC, 0.42A / 115	5VAC,			
Leakage current	<1.5mA at	<1.5mA at 50/60Hz 240VAC INPUT				
Max. No. Of PSU on Circuit	B10	B16	C10	C16	D10	D16
Breaker	5	8	5	8	11	17
No load Power Consumption (max.)	<1.0W	·			·	

MDIN20W12



12V/20W Din Rail Power Supply

PROTECTIONS	
Over Current	Range 110 ÷ 140%
	Type: hiccup mode. Recovers automatically after fault condition is removed.
Short Circuit	Type: hiccup mode.
Over Voltage	14 - 17V
	Type: shut down output voltage. Re-power on to recovery.
Over Temperature	Range: 110°C ± 10°C
	Type: shut down output voltage. Re-power on to recovery.

WORKING ENVIRONMENT	
Working Temperature	-20°C to 50°C ambient derate each output at 4.0% per degree from 50°C to 60°C
Operating humidity	5 ÷ 95% RH (non-condensing)
Storage Temperature and Humidity	-40°C ÷ +85°C, 5 ÷ 95% RH (non-condensing)

SAFETY and EMC REGULATIONS	
Safety Standards	Compliance to EN 62368-1
Withstand Voltage	IN/OUT: 3kVAC, IN/GND: 2kVAC, OUT/GND: 0.5kVAC
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN55035
Harmonic Current	Compliance to EN61000-3-2; EN61000-3-3

OTHERS	
Dimensions	100 x 89.9 x 22.7mm (L x W x H)
Weight and Packing	135g; 100pcs./box; weight box and dimensions: 15.5kg; 58 x 35 x 21 cm

MECHANICAL SPECIFICATION

PIN ASSIGNMENT	
NO.	Assignment
1	Input: GND
2	Input: AC/N
3	Input: AC/L
4	Output: Uouт+
5	Output: Uouт-
6	Relay DC OK signal
7	SVR1: Output Voltage Adjustment
8	LED DC OK signal

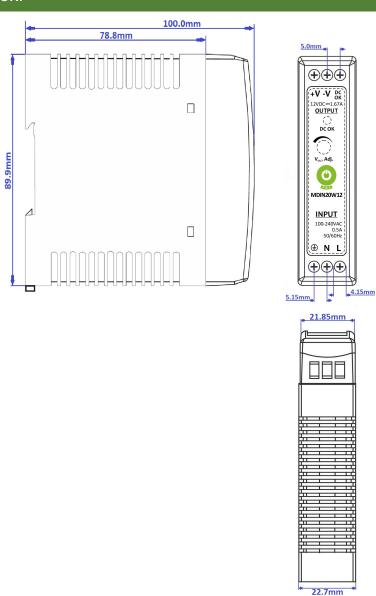


MDIN20W12

12V/20W Din Rail Power Supply



MECHANICAL SPECIFICATION:



- 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.