ADM12 series

12W Constant Voltage Switching Power Supply

■ Features:

- *Constant voltage design*
- *Universal AC input / Full range*
- *Protections: Short circuit / Overload / Over voltage*
- *Cooling by free air convection*
- *Plastic case, IP20 protection*
- *Low price*

ELECTRICAL SPECIFICATION

MODEL	ADM1212
OUTPUT	
Rated Voltage	12V
Rated Current	1A
Rated Power	12W
Line Regulation	± 0.5%
Load Regulation	± 1%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	240mV$_{P-P}$
Setup [4]	500ms/ 230VAC at full load
Hold up Time	20ms / 230VAC at full load
INPUT	
Voltage Range	110 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	>75%
AC Current (typ.)	0.2A / 115VAC, 0.1A / 230VAC
PROTECTIONS	
Overload	Range: 105 ÷ 150% rated current
	Type: hiccup mode, auto-recovery.
Short Circuit	Type: hiccup mode, auto-recovery.
Over voltage	Max. 16.5V
	Type: hiccup mode, auto-recovery.
WORKING ENVIRONMENT	
Working Temperature	-10°C ÷ 50°C
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-20°C ÷ 70°C, 10 ÷ 95% RH non-condensing

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SAFETY AND EMC REGULATIONS

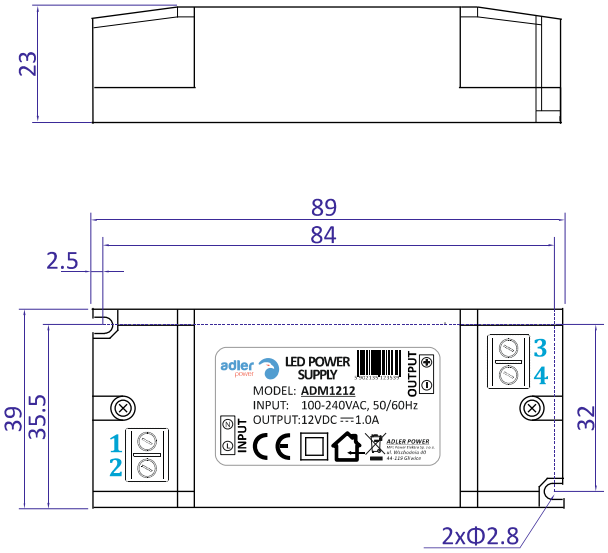
Safety Standards	Compliance to EN60950-1
Withstand Voltage	I-P/O-P: 1.5kVAC; I-P/GND: 1.5kVAC; O-P/GND: 0.5kVAC
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

Lifetime	12 000Hrs for input 230VAC, 20°C ambient temperature, full load
Dimensions	89 x 39 x 23mm (L x W x H)
Weight and Packing	0.05kg; 250pcs./ctn; ctn weight and dimensions: 14kg; 46 x 39 x 37cm
EAN code	5 902135 123539

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. 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.

MECHANICAL SPECIFICATION



TERMINAL PIN NO. ASSIGNMENT

PIN No.	Assignment	PIN No.	Assignment
1	Input: AC/N	3	Output: +V
2	Input: AC/L	4	Output: -V

DERATING CURVE