

# ADM100 series

100W Constant Voltage Switching Power Supply



## ■ Features:

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



## ELECTRICAL SPECIFICATION

MODEL	ADM10012	ADM10024
<b>OUTPUT</b>		
<b>Rated Voltage</b>	12V	24V
<b>Rated Current</b>	8.25A	4.13A
<b>Rated Power</b>	100W	
<b>Line Regulation</b>	± 0.5%	
<b>Load Regulation</b>	± 1%	
<b>Tolerance [3]</b>	± 5%	
<b>Ripple &amp; Noise (max.) [2]</b>	480mV <sub>p-p</sub>	960mV <sub>p-p</sub>
<b>Setup [4]</b>	1200ms/ 230VAC at full load	
<b>Hold up Time</b>	35ms / 230VAC at full load	
<b>INPUT</b>		
<b>Voltage Range</b>	90 ÷ 264VAC	
<b>Frequency Range</b>	50 ÷ 60Hz	
<b>Efficiency (typ.)</b>	80%	
<b>AC Current (typ.)</b>	2.0A / 115VAC, 1.0A / 230VAC	
<b>PROTECTIONS</b>		
<b>Overload</b>	Range: 105 ÷ 150% rated current Type: hiccup mode, auto-recovery.	
<b>Short Circuit</b>	Type: hiccup mode, auto-recovery.	
<b>Over voltage</b>	Max. 20V Type: hiccup mode, auto-recovery.	
<b>Over temperature</b>	Type: shut off output voltage, auto-recovery.	

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## WORKING ENVIRONMENT

<b>Working Temperature</b>	-10°C ÷ 50°C (refer to Derating Curve)
<b>Working Humidity</b>	20 ÷ 90% RH non-condensing
<b>Storage Temperature and Humidity</b>	-40°C ÷ 85°C, 10 ÷ 95% RH non-condensing

## SAFETY AND EMC REGULATIONS

<b>Safety Standards</b>	Compliance to EN61347-1, EN61347-2-13
<b>Withstand Voltage</b>	I-P/O-P: 1.5kVAC; I-P/GND: 1.5kVAC; O-P/GND: 0.5kVAC
<b>EMC Emission</b>	Compliance to EN55015
<b>EMC Immunity</b>	Compliance to EN61547
<b>Harmonic Current</b>	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

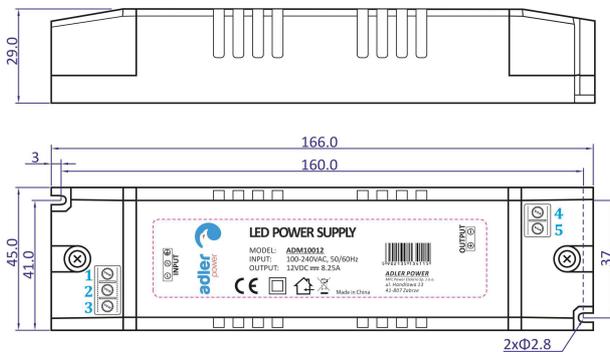
<b>Lifetime</b>	12 000Hrs for input 230VAC, 20°C ambient temperature, full load
<b>Dimensions</b>	166 x 45 x 29mm (L x W x H)
<b>Weight and Packing</b>	0.18kg; 104pcs./ctn; ctn weight and dimensions: 20kg; 46 x 39 x 37cm

EAN code



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: GND	4	Output: -V
2	Input: AC/N	5	Output: +V
3	Input: AC/L		

## DERATING CURVE

