

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

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WORKING ENVIRONMENT

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

SAFETY AND EMC REGULATIONS

Safety Standards	Compliance to EN61347-1, EN61347-2-13
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

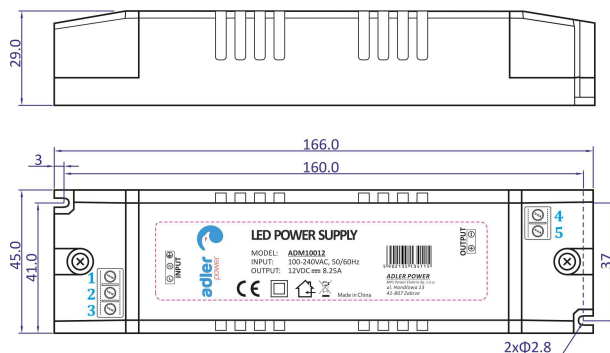
Lifetime	12 000Hrs for input 230VAC, 20°C ambient temperature, full load
Dimensions	166 x 45 x 29mm (L x W x H)
Weight and Packing	0.18kg; 104pcs./ctn; ctn weight and dimensions: 20kg; 46 x 39 x 37cm

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

