# ADM24 series

*24W 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 | ADM2412 |
|---|---|
| **OUTPUT** | |
| ***Rated Voltage*** | 12V |
| ***Rated Current*** | 2A |
| ***Rated Power*** | 24W |
| ***Line Regulation*** | ± 1% |
| ***Load Regulation*** | ± 2% |
| ***Tolerance [3]*** | ± 5% |
| ***Ripple & Noise (max.) [2]*** | 240mV$_{P-P}$ |
| ***Setup [4]*** | 1000ms/ 230VAC at full load |
| ***Hold up Time*** | 20ms / 230VAC at full load |
| **INPUT** | |
| ***Voltage Range*** | 110 ÷ 264VAC |
| ***Frequency Range*** | 47 ÷ 63Hz |
| ***Efficiency (typ.)*** | 83% |
| ***AC Current (typ.)*** | 0.45A / 115VAC, 0.2A / 230VAC |
| **PROTECTIONS** | |
| ***Overload*** | Range: 105 ÷ 150% rated current |
| | Type: hiccup mode, auto-recovery. |
| ***Short Circuit*** | Type: hiccup mode, auto-recovery. |
| ***Over voltage*** | Max. 26V |
| | 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

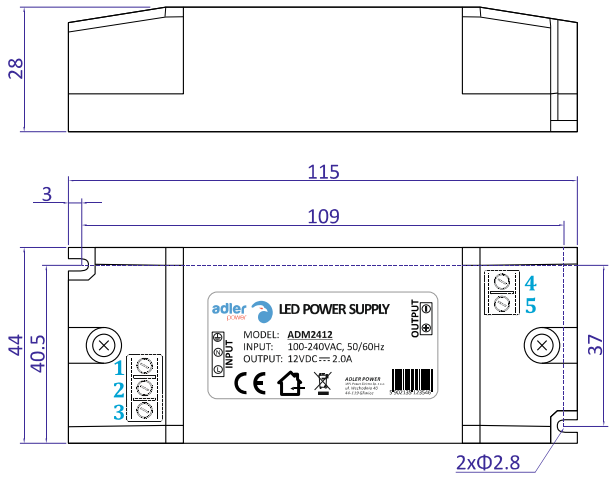
| | |
|---|---|
| ***Safety Standards*** | Compliance to EN60950-1 |
| ***Withstand Voltage*** | I-P/O-P: 1.5kVAC; I-P/GND: 1.5kVAC; O-P/GND: 0.5kVAC |
| ***EMC Emission*** | Compliance to EN55015 |
| ***EMC Immunity*** | Compliance to EN61547 |
| ***Harmonic Current*** | Compliance to EN61000-3-3; EN61000-3-2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

## OTHERS

| | |
|---|---|
| ***Dimensions*** | 115 x 44 x 28mm (L x W x H) |
| ***Weight and Packing*** | 0.1kg; 120pcs./ctn; ctn weight and dimensions: 17kg; 46 x 39 x 37cm |
| ***EAN code*** | 5 902135 123546 |

*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** | **Frame Ground: GND** | **4** | **Output: -V** |
| **2** | **Input: AC/N** | **5** | **Output: +V** |
| **3** | **Input: AC/L** | | |