

ADL-500-12 series

500W Enclosed Type Switching Power Supply



■ Features:

- Constant voltage design
- European AC input / Full range
- Protections: Short circuit / Overload
- Cooling by free air convection
- Low price



ELECTRICAL SPECIFICATION

MODEL	ADL-500-12
OUTPUT	
<i>Rated Voltage</i>	12V
<i>Rated Current</i>	41.6A
<i>Rated Power</i>	200W
<i>Voltage Adjustment – potentiometer VIP1</i>	10.8 ÷ 13.2V
<i>Line Regulation</i>	± 1%
<i>Load Regulation</i>	± 3%
<i>Tolerance [3]</i>	± 8%
<i>Ripple & Noise (max.) [2]</i>	240 mV _{p-p}
<i>Setup, Rise Time [4]</i>	1500ms, 20ms / 230VAC at full load
<i>Hold up Time</i>	20ms / 230VAC at full load
INPUT	
<i>Voltage Range</i>	180 ÷ 264VAC
<i>Frequency Range</i>	47 ÷ 63Hz
<i>Efficiency (typ.)</i>	81%
<i>AC Current (typ.)</i>	4A / 230VAC
PROTECTIONS	
<i>Overload</i>	Range: 105 ÷ 150% rated current
	Type: constant current limiting. Recovers automatically after fault condition is removed.
<i>Short Circuit</i>	Type: short-circuit with voltage limiting, auto-recovery.

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WORKING ENVIRONMENT

Working Temperature	-10°C ÷ 45°C
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ 85°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

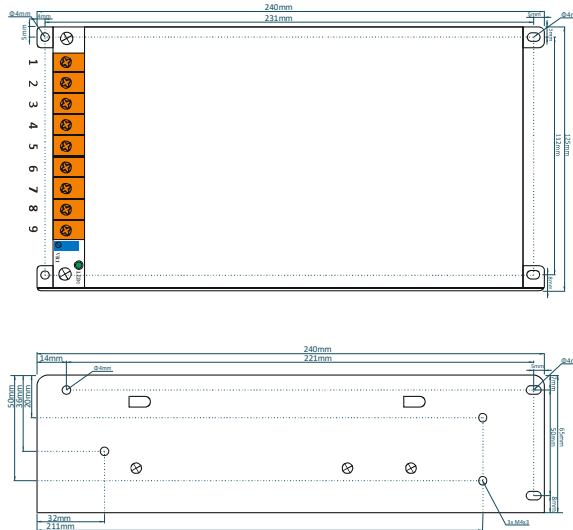
Safety Standards	Compliance to EN60950-1
Withstand Voltage	I-P/O-P: 1.5kVAC; I-P/GND: 1.5kVAC; O-P/GND: 0.5kVAC
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

Dimensions	240 x 125 x 65mm (L x W x H)
Weight and Packing	1.4kg; 10pcs./ctn; ctn weight and dimensions: 14kg; 46 x 39.3 x 27cm

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/L	4,5,6	Output: -V
2	Input: AC/N	7,8,9	Output: +V
3	Frame Ground: GND	VR1	Output voltage adjustment
		LED1	Power On indicator