

# ADL-40 series

36W Enclosed Type Switching Power Supply



## ■ Features:

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



5 9 0 2 1 3 5 4 1 1 9 4 8 8



SELV  
equivalent

## ELECTRICAL SPECIFICATION

<b>MODEL</b>	<b>ADL-40-12</b>
<b>OUTPUT</b>	
<b>Rated Voltage</b>	12V
<b>Rated Current</b>	3A
<b>Rated Power</b>	36W
<b>Voltage Adjustment – potentiometer VR1</b>	11.5 ÷ 13V
<b>Line Regulation</b>	± 1%
<b>Load Regulation</b>	± 2%
<b>Tolerance [3]</b>	± 5%
<b>Ripple &amp; Noise (max.) [2]</b>	320mV <sub>p-p</sub>
<b>Setup, Rise Time [4]</b>	500ms, 30ms / 230VAC at full load
<b>Hold up Time</b>	30ms / 230VAC at full load
<b>INPUT</b>	
<b>Voltage Range</b>	100 ÷ 264VAC
<b>Frequency Range</b>	47 ÷ 63Hz
<b>Efficiency (typ.)</b>	82%
<b>AC Current (typ.)</b>	0.7A / 115VAC, 0.4A / 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>	13.5 ÷ 18.5V
	Type: hiccup mode, auto-recovery.

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## WORKING ENVIRONMENT

<b>Working Temperature</b>	-20°C ÷ 50°C
<b>Working Humidity</b>	20 ÷ 90% RH non-condensing
<b>Storage Temperature and Humidity</b>	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing

## SAFETY AND EMC REGULATIONS

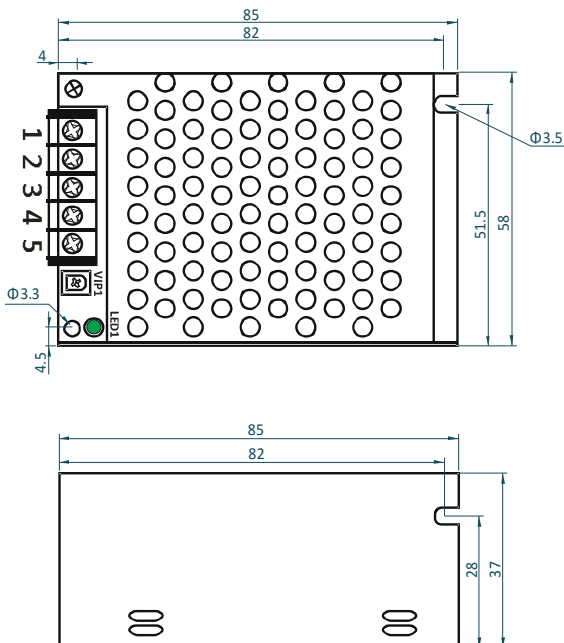
<b>Safety Standards</b>	Compliance to EN61347-1, EN61347-2-13, IP67
<b>Withstand Voltage</b>	I-P/O-P: 1.5kVAC; I-P/GND: 1.5kVAC; O-P/GND: 0.5kVAC
<b>EMC Emission</b>	Compliance to EN55015
<b>EMC Immunity</b>	Compliance to EN61547
<b>Harmonic Current</b>	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

<b>Dimensions</b>	85 x 58 x 37mm (L x W x H)
<b>Weight and Packing</b>	0.13kg; 100pcs./ctn; ctn weight and dimensions: 15kg; 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	Output: -V
2	Input: AC/N	5	Output: +V
3	Frame Ground: GND	VR1	Output voltage adjustment
		LED1	Power On indicator