ADLS-100 series

100W Enclosed Type 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
- Compact size
- Low price

SELV equivalent

ELECTRICAL SPECIFICATION

MODEL	ADLS-100-12
OUTPUT	
Rated Voltage	12V
Rated Current	8.5A
Rated Power	102W
Voltage Adjustment – potentiometer VIP1	10.8 ÷ 13.2V
Line Regulation	± 1%
Load Regulation	± 2%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	360mV$_{P-P}$
Setup, Rise Time [4]	500ms, 30ms / 230VAC at full load
Hold up Time	30ms / 230VAC at full load
INPUT	
Voltage Range	140 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	83%
AC Current (typ.)	2A / 115VAC, 1A / 230VAC
PROTECTIONS	
Overload	Range: 110 ÷ 170% rated current
	Type: hiccup mode, auto-recovery.
Short Circuit	Type: hiccup mode, auto-recovery.
Over voltage	13.5 ÷ 18.5V
	Type: hiccup mode, auto-recovery.
Over Temperature	Range: 110°C ± 10°C (detect by main IC)
	Type: hiccup mode, auto-recovery.

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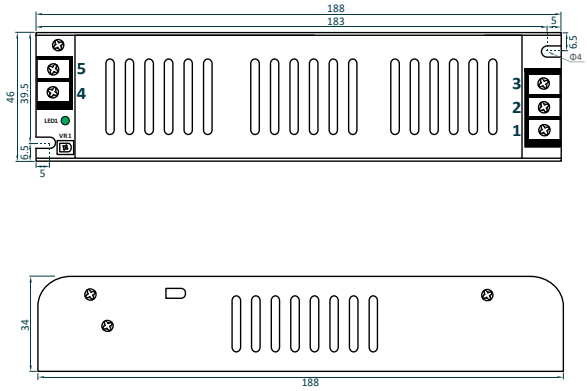
WORKING ENVIRONMENT	
Working Temperature	-20°C ÷ 50°C
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing
SAFETY AND EMC REGULATIONS	
Safety Standards	Compliance to EN61347-1, EN61347-2-13
Withstand Voltage	I-P/O-P: 1.5kVAC; I-P/GND: 1.5kVAC; 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	
Dimensions	188 x 46 x 34mm (L x W x H)
Weight and Packing	0.24kg; 50pcs./ctn; ctn weight and dimensions: 14.5kg; 42.5 x 30 x 25cm

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**	**VR1**	**Output voltage adjustment**
		LED1	**Power On indicatior**