

# ADLS-120 series

120W 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



## ELECTRICAL SPECIFICATION

MODEL	ADLS-120-12	ADLS-120-24
<b>OUTPUT</b>		
<i>Rated Voltage</i>	12V	24V
<i>Rated Current</i>	10A	5A
<i>Rated Power</i>	120W	
<i>Voltage Adjustment – potentiometer VR1</i>	10.8 ÷ 13.2V	21.6 ÷ 26.4V
<i>Line Regulation</i>	± 1%	
<i>Load Regulation</i>	± 2%	
<i>Tolerance [3]</i>	± 5%	
<i>Ripple &amp; Noise (max.) [2]</i>	420mV <sub>p-p</sub>	
<i>Setup, Rise Time [4]</i>	500ms, 30ms / 230VAC at full load	
<i>Hold up Time</i>	30ms / 230VAC at full load	
<b>INPUT</b>		
<i>Voltage Range</i>	110 ÷ 264VAC	
<i>Frequency Range</i>	47 ÷ 63Hz	
<i>Efficiency (typ.)</i>	83.5%	
<i>AC Current (typ.)</i>	2.5A / 115VAC, 1.3A / 230VAC	
<b>PROTECTIONS</b>		
<i>Overload</i>	Range: 110 ÷ 170% of rated current Type: hiccup mode, auto-recovery.	
<i>Short Circuit</i>	Type: hiccup mode, auto-recovery.	
<i>Over voltage</i>	Range: 110 ÷ 150% of rated voltage Type: hiccup mode, auto-recovery.	
<i>Over Temperature</i>	Range: 110°C ± 10°C (detect by main IC) 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
<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

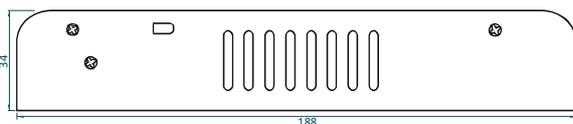
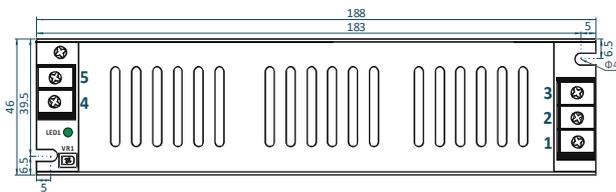
<b>Lifetime</b>	12 000Hrs for input 230VAC, 20°C ambient temperature, full load
<b>Dimensions</b>	188 x 46 x 34mm (L x W x H)
<b>Weight and Packing</b>	0.24kg; 50pcs./ctn; ctn weight and dimensions: 14.5kg; 42.5 x 30 x 25cm

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

## DERATING CURVE

