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	ADLS-100-24
OUTPUT		
Rated Voltage	12V	24V
Rated Current	8.5A	4.2A
Rated Power	102W	
Voltage Adjustment – potentiometer VIP1	10.8 ÷ 13.2V	21.6V ÷ 26.4V
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% of rated current	
	Type: hiccup mode, auto-recovery.	
Short Circuit	Type: hiccup mode, auto-recovery.	
Over voltage	Range: 110 ÷ 150% of rated voltage	
	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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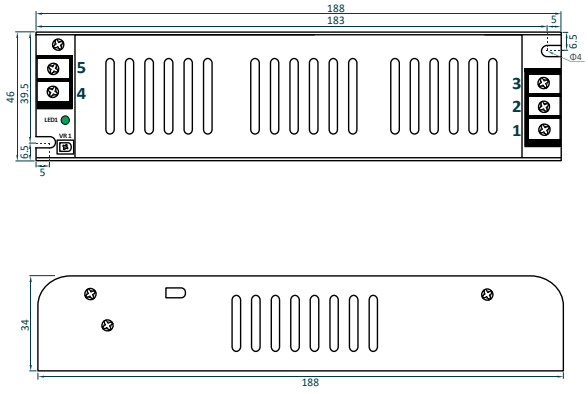
WORKING ENVIRONMENT	
Working Temperature	-20°C ÷ 50°C
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing
SAFETY AND EMC REGULATIONS	
Safety Standards	Compliance to EN61347-1, EN61347-2-13
Withstand Voltage	I-P/O-P: 1.5kVAC; I-P/GND: 1.5kVAC; 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	
Lifetime	12 000Hrs for input 230VAC, 20°C ambient temperature, full load
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
EAN code	5 902135 119402 5 902135 124567

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.

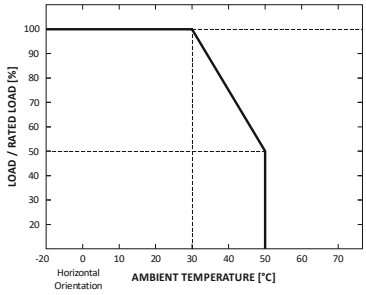
MECHANICAL SPECIFICATION



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

DERATING CURVE



MPL POWER ELEKTRO

MPL POWER ELEKTRO Sp. z o.o.
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CE

EU DECLARATION OF CONFORMITY

For the following equipment:

Part No.:	**ADLS-100-X (X = 12, 24)**
Batch No.:	**J118Axxxxx**

Is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied:

ROHS Directive 2011/65/EU

Low Voltage Directive 2014/35/UE:

Standard	Description
EN 61347-1:2015	Lamp controlgear - General and safety requirements.
EN 61347-2-13:2014	Lamp controlgear - Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules

Electromagnetic Compatibiity Directive 2014/30/UE:

Standard	Description
EN55015:2013 + A1:2015	Conducted emission / Radiated emission
EN61000-3-2:2014	Harmonic current.
EN61000-3-3:2013	Voltage flicker.
EN61547:2009	Electro-magnetic susceptibility.

Power supply is considered as component of final equipment 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 and LVD Directives.

Gliwice, 11.01.2018r.

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NIP 631-24-57-646 REGON 240105606

Company stamp

KIEROWNIK
Działu Technicznego
Łukasz Jaromin

Person signature and stamp