

# ADLS-360 series

360W Enclosed Type Switching Power Supply



## ■ Features:

- Constant voltage design
- European AC input
- Protections: Short circuit / Overload / Over voltage / Over Temperature
- Cooling by forced air convection
- Compact size
- Low price



## ELECTRICAL SPECIFICATION

| MODEL                     | ADLS-360-12                             | ADLS-360-24 |
|---------------------------|-----------------------------------------|-------------|
| OUTPUT                    |                                         |             |
| Rated Voltage             | 12V                                     | 24V         |
| Rated Current             | 30A                                     | 15A         |
| Rated Power               | 360W                                    |             |
| Line Regulation           | ± 1%                                    |             |
| Load Regulation           | ± 2%                                    |             |
| Tolerance [3]             | ± 5%                                    |             |
| Ripple & Noise (max.) [2] | 1V <sub>p-p</sub>                       |             |
| Setup, Rise Time [4]      | 1200ms, 3ms / 230VAC at full load       |             |
| Hold up Time              | 10ms / 230VAC at full load              |             |
| INPUT                     |                                         |             |
| Voltage Range             | 180 ÷ 264VAC                            |             |
| Frequency Range           | 47 ÷ 63Hz                               |             |
| Efficiency (typ.)         | 84%                                     |             |
| AC Current (typ.)         | 4A / 230VAC                             |             |
| PROTECTIONS               |                                         |             |
| Overload                  | Range: 105 ÷ 150% rated current         |             |
|                           | Type: hiccup mode, auto-recovery.       |             |
| Short Circuit             | Type: hiccup mode, auto-recovery.       |             |
| Over voltage              | 13.5 ÷ 24V                              |             |
|                           | Type: hiccup mode, auto-recovery.       |             |
| Over Temperature          | Range: 110°C ± 10°C (detect by main IC) |             |
|                           | Type: shut-off, auto-recovery.          |             |

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## WORKING ENVIRONMENT

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| <b>Working Temperature</b>              | -20°C ÷ 50°C (Refer to Derating Curve)   |
| <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

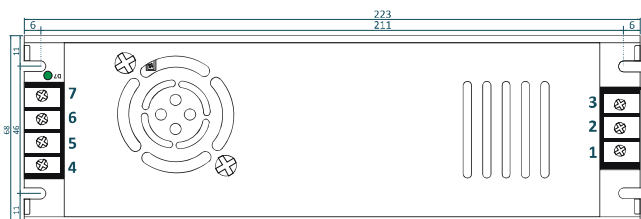
|                          |                                                      |
|--------------------------|------------------------------------------------------|
| <b>Safety Standards</b>  | Compliance to EN61347-1, EN61347-2-13                |
| <b>Withstand Voltage</b> | I-P/O-P: 1.5kVAC; I-P/GND: 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>         | 223 x 68 x 40mm (L x W x H)                                                                                                                                             |
| <b>Weight and Packing</b> | 0.55kg; 40pcs./ctn; ctn weight and dimensions: 24.5kg; 46 x 39.3 x 27cm                                                                                                 |
| <b>EAN Code</b>           |   |

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.

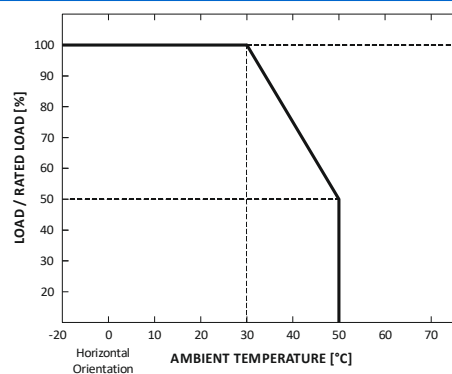
## MECHANICAL SPECIFICATION



## TERMINAL PIN NO. ASSIGNMENT

| PIN No. | Assignment        | PIN No. | Assignment         |
|---------|-------------------|---------|--------------------|
| 1       | Frame Ground: GND | 4,6     | Output: +V         |
| 2       | Input: AC/L       | 7,8     | Output: -V         |
| 3       | Input: AC/N       | D7      | Power On indicator |

## DERATING CURVE



## EU DECLARATION OF CONFORMITY

For the following equipment:

|            |                         |
|------------|-------------------------|
| Part No.:  | ADLS-360-X (X = 12, 24) |
| Batch No.: | J118Kxxxxx              |

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 Compatibility 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.*