



The power behind your lights

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Model: JLV-12100P-S Size: 236x57x18 mm  
JLV-24100P-S



## Brief Information

Super-Thin Series

# 100W

### LED DRIVER (C.V. LED POWER SUPPLY)

Model JLV-12100P-S / JLV-24100P-S

Input 100-250V AC

Output 12VDC 8.33A 100W/ 24VDC 4.17A 100W

## Product Features

- Plastic housing, Wide input range
- High transfer efficiency
- Super-thin: 18mm height
- High Power Factor: PF>0.95
- Terminal block connection
- 100% full loading, 100% burn-in tested
- Overload/short circuit protection

## MAIN ELECTRICAL DATA

### AC Input

|                   |                                    |
|-------------------|------------------------------------|
| Input Voltage     | 100-250V                           |
| Input Frequency   | 50/60Hz                            |
| Power Factor      | >0.95                              |
| Efficiency (Typ.) | >92%                               |
| Input Current     | 230V: 0.5A max.<br>120V: 1.1A max. |
| Inrush Current    | 75A                                |
| Leakage Current   | 5mA/220VAC                         |

### DC Output

|                       |               |               |
|-----------------------|---------------|---------------|
| Output Voltage        | 12V           | 24V           |
| Rated Current         | 8.33A         | 4.17A         |
| Rated Power           | 100W          | 100W          |
| Ripple & Noise (Max.) | <150mVp-p     | <150mVp-p     |
| Setup, Rise Time      | 1500ms/220VAC | 1500ms/220VAC |
| Line Regulation       | 1%            | 1%            |
| Load Regulation       | 1%            | 1%            |

## Service Environment

|                  |                                 |
|------------------|---------------------------------|
| Working Temp.    | -25°C~70°C (Derating from 50°C) |
| Working Humidity | 15~90%RH                        |
| Storage Temp.    | -40°C~80°C                      |
| Storage Humidity | 15~95%RH                        |

## Protection

|               |                                                                           |
|---------------|---------------------------------------------------------------------------|
| Overload      | Yes, cut-off when loading exceeds 20-40%                                  |
| Short Circuit | Yes, hiccup mode, recovers automatically after fault condition is removed |

## Safety

|                      |                                               |
|----------------------|-----------------------------------------------|
| Safety Standard      | EN 61347-2-13                                 |
| Withstand Voltage    | I/P-O/P: 3.75KV AC; O/P-GND: 0.5KV AC         |
| Isolation Resistance | I/P-O/P: >100M Ohms / 500VDC<br>/25°C / 70%RH |

## Standards

|                            |                                   |
|----------------------------|-----------------------------------|
| EN 55015:2019+A11:2020     | EN 61000-3-2:2019+A1:2021         |
| EN 61347-2-13:2014+A1:2017 | EN 61000-3-3:2013+A1:2019+A2:2021 |
| EN 61347-1:2015+A1:2021    | EN 61547: 2009                    |
| EN 62493:2015              |                                   |

## Packaging Information

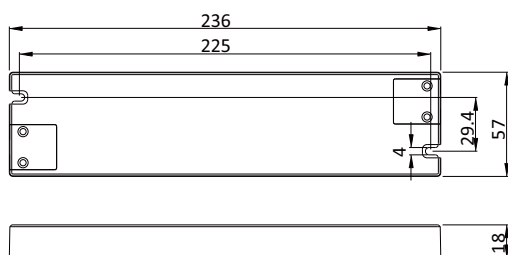
|                     |                 |
|---------------------|-----------------|
| Product Dimension   | 236*57*18 mm    |
| Products Net Weight | 220 G           |
| PCS/Carton(QTY)     | 60 PCS          |
| Master Carton Size  | 51.5*29*21.5 cm |
| G. Weight/ Carton   | 16.5 KG         |

### Installation Tips:

- Please identify the power supply's input and output before installation.
- Ensure correct output + & - wire connection. Power on after wire connection is done.
- To avoid voltage drop and loading capacity wasting on the output extension wire, please install the power supply to the loading as near as possible, if must use long extension wires, thicker wires and less loading wattage is required.
- The power supply to be installed at good ventilation and cooling environment.

## Physical Drawing

Unit: mm



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Input: Terminal Connection

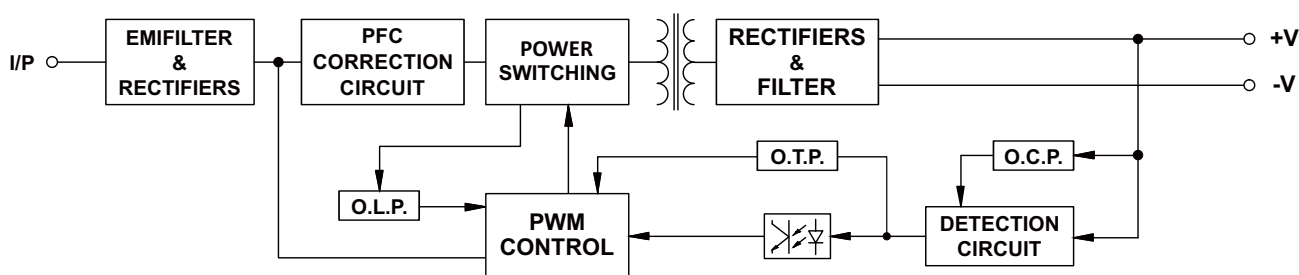
Output: Terminal Connection

Housing: Plastic

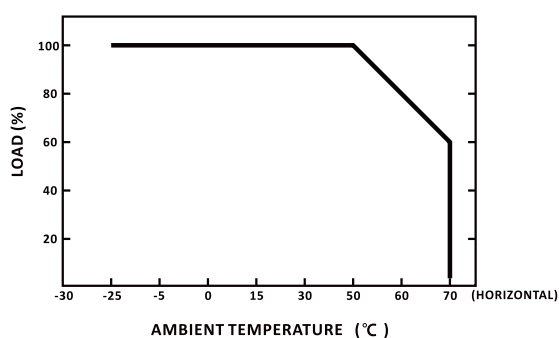
Polycarbonate(PC)

UL94 V-0 (B1)

## Block Diagram



## Derating Curve



## Static Characteristics

