



The power behind your lights

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Brief Information

Super-Thin Series

45W

Waterproof Power Supply (C.V.)

Model JLV-12045PA-EF / JLV-24045PA-EF

Input 220-240V AC

Output 12VDC 3.75A 45W / 24VDC 1.875A 45W

Product Features

- Plastic housing, LPV standard
- High transfer efficiency
- Super-thin: 16.5mm height
- High Power Factor: PF>0.95
- Glue filled, anti-moisture
- 100% full loading, 100% burn-in tested
- Overload/short circuit protection
- Standby power consumption < 0.5W

* Defogger complaint version is available subject to request

Model: JLV-12045PA-EF Size: 185x55x16.5mm
JLV-24045PA-EF



MAIN ELECTRICAL DATA

AC Input

Input Voltage	220-240V (Rated Range) 185-250V (Workable Range)
Input Frequency	50/60Hz
Efficiency (Typ.)	>85% 12V/ 85% 24V
Input Current	220V: 0.25A max.
Inrush Current	60A
Leakage Current	5mA/220VAC

DC Output

Output Voltage	12V	24V
Rated Current	3.75A	1.875A
Rated Power	45W	45W
Ripple & Noise (Max.)	<200mVp-p	<200mVp-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	15~85%RH
Storage Temp.	-40°C~85°C
Storage Humidity	15~95%RH

Standards

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

Protection

Overload	Yes, cut-off when loading exceeds 10-40%
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 /25°C / 70%RH

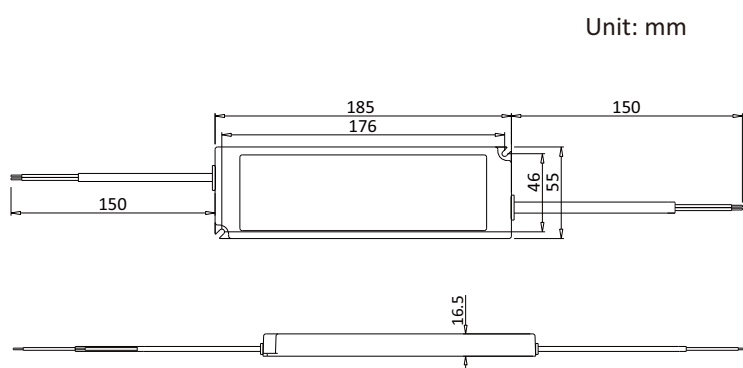
Packaging Information

Product Dimension	185*55*16.5mm
Products Net Weight	285G
PCS/Carton(QTY)	60 PCS
Master Carton Size	47.5*31.5*20.5cm
G. Weight/ Carton	17.3KG

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



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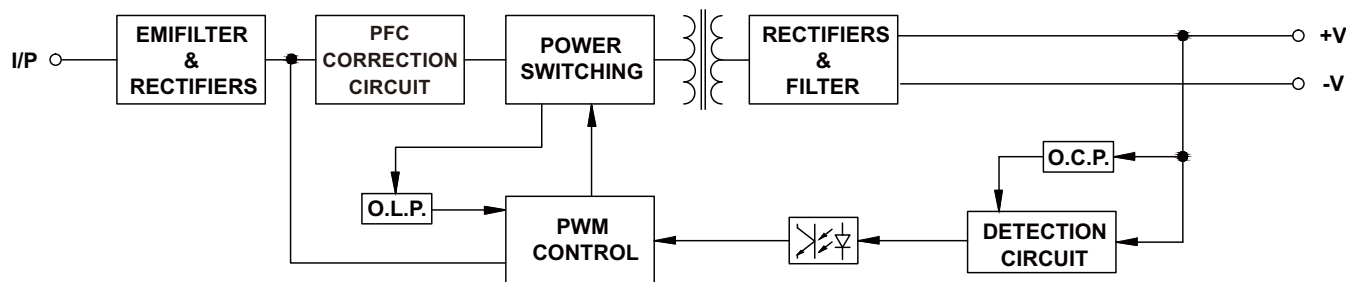
Output 12VDC 3.75A 45W/ 24VDC 1.875A 45W

Input: 2x1mm² wire, Brown L, Blue N
150mm length

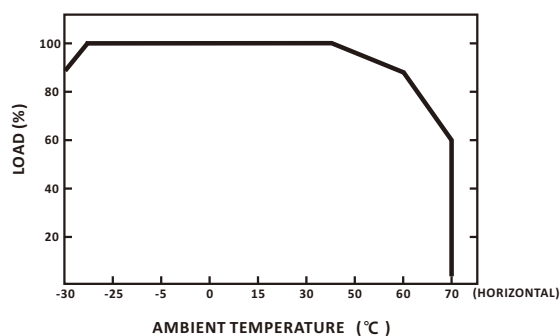
Output: 2x18AWG wire, Red +, Black -
150mm length

Housing: Plastic (ABS)

Block Diagram



Derating Curve



Static Characteristics

