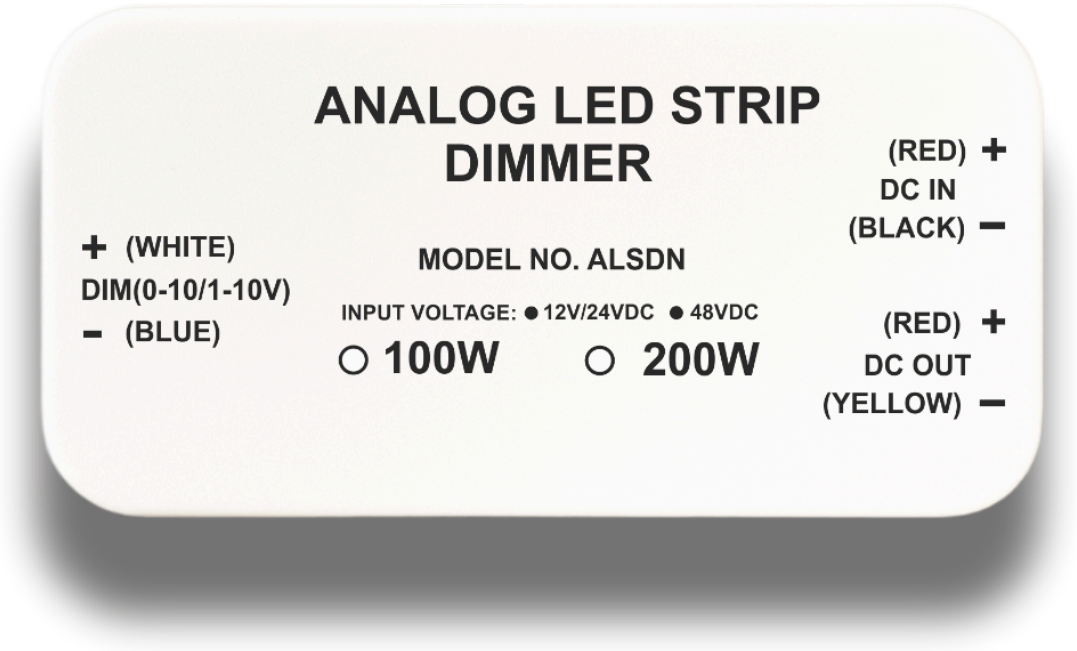
ANALOG 0–10V / 1–10V LED STRIP DIMMER

JUCVADN-100W / 200W



KEY FEATURES

- 0–10V / 1–10V Analog Dimming
- DC to DC Operation
- Compatible with Analog Home Automation
- Smooth Linear Dimming Curve
- Dimming Range: 1%–100%
- Flicker-Free Performance
- High Efficiency
- 2 Years Warranty

APPLICATIONS

LED strip lighting, panel light, down light, architectural lighting, residential and commercial lighting systems.

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DESCRIPTION

An analog dimmer (0–10V / 1–10V) is used to control brightness of LED strips by varying the control voltage signal. The driver modulates the DC output using high-frequency PWM control to achieve smooth dimming without flicker. It improves energy efficiency and extends LED life by controlling power delivery precisely.

JUCVADN-100W / 200W is a compact Analog 0–10V / 1–10V Constant Voltage LED Strip Dimmer designed for dimming 12V / 24V DC LED strip lighting systems. It operates on 12Vdc / 24Vdc input and supports standard 0–10V and 1–10V analog control signals from lighting controllers and home automation systems.

The dimmer provides smooth, linear and flicker-free dimming from 1% to 100%, ensuring stable output performance and high reliability. It is suitable for indoor lighting applications and must be used with a constant voltage SMPS.

MODEL NO. & WATTAGE

Model No.: JUCVADN-100W / JUCVADN-200W

Output Type: Constant Voltage (12V / 24V)

ELECTRICAL DATA

Parameter	JUCVADN-100W	JUCVADN-200W
Input Voltage	12Vdc / 24Vdc	12Vdc / 24Vdc
Input Wattage	10.5–13.5V / 21–27V	10.5–13.5V / 21–27V
Output Wattage	100W	200W
Output Voltage Type	12Vdc / 24Vdc	12Vdc / 24Vdc
PWM Frequency	≥1 kHz	≥1 kHz
Max Output Current @12V	8A	16A
Max Output Current @24V	4A	8A
Efficiency	>88%	≥90%
Output Current Type	Constant Voltage (PWM)	Constant Voltage (PWM)
Isolation Class	Class III	Class III
Ripple and Noise	<200mVp-p	<200mVp-p

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DIMMING & PROTECTION

Parameter	Value
Dimming Method	0–10V / 1–10V Analog
0–10V Dimming	Yes
1–10V Dimming	Yes
Dimming Range	1–100%
Surge Protection	Up to 6 KV
Over Voltage Protection	Yes
Over Current Protection	Yes
Short Circuit Protection	Yes
Flicker	Flicker Free

TEMPERATURE & MATERIAL

Parameter	Value
Ambient Temperature	50°C
Case Temperature	70°C
Enclosure Material	Plastic (FR Rated)
Enclosure Color	Ivory
Max. Housing Temperature (in Case Fault)	<85°C

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DIMENSIONS & WEIGHT

Parameter	Value
Length	65 mm
Breadth	23 mm
Height	36 mm
Weight	40 g
Prewired	No

STANDARDS & CERTIFICATES

Parameter	Value
Standards	IEC61347-1, IEC 61347-2-13, IEC 62384, CISPR 15, IEC 61000-3-2, IEC 61000-3-3, IEC 61547
Certificates	BIS (R-71027472)
Protection Class	II
Type of Protection	IP20

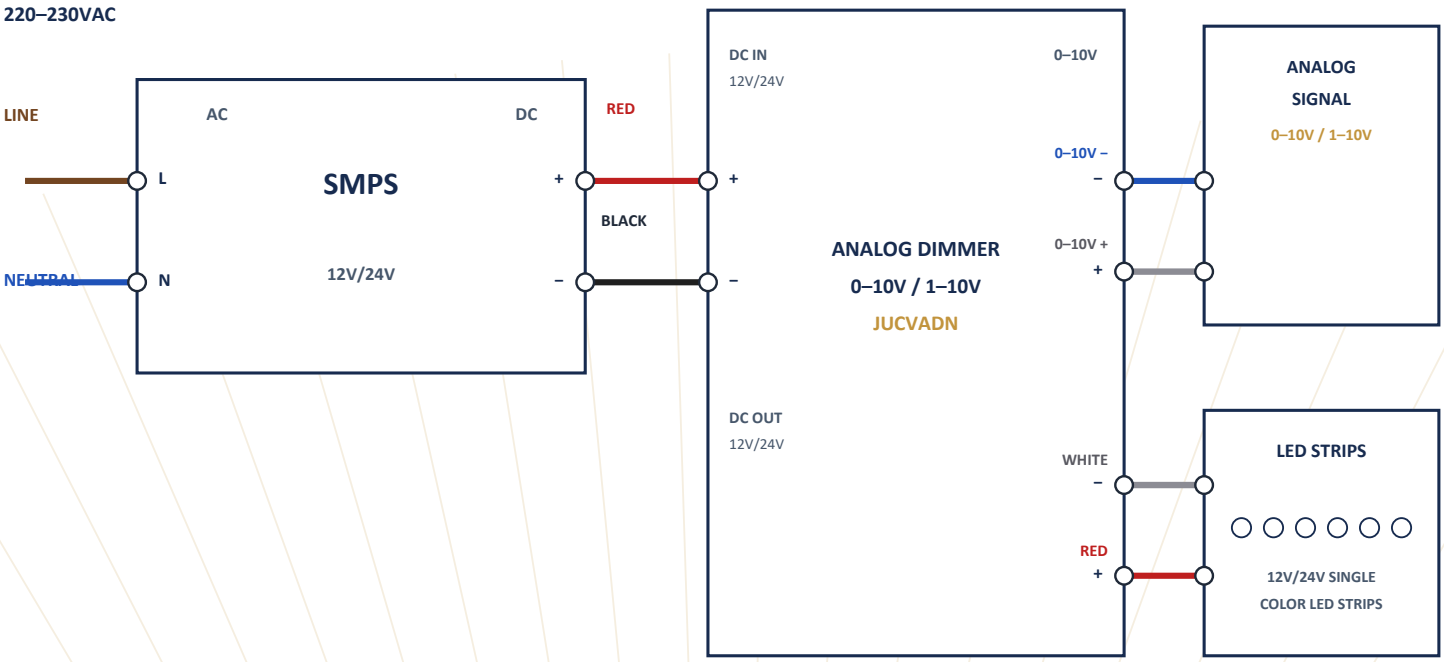
REFERENCE

Model No.: JUCVADN-100W / JUCVADN-200W

Source Document: JSK URJA Product Datasheet — JUCVADN-100W/200W (JU2502-P001-1)

Contact: www.jskurja.com | sales@jskurja.com | +91 9920730373

JSK URJA ANALOG 0-10V / 1-10V DIMMER
CONNECTION DIAGRAM



Source wiring preserved. 0–10V signal is blue – and white +. DC OUT is white – and red +.