



Onboard In-Line 3-Channel LED Controller, 12V/72W-24V/144W, 5-24V Input

- Onboard in-line design integrates without extra wiring or connectors
- Three independent channels for intensity, color, or effects control
- Rated 72W output at 12V, up to 144W at 24V
- Operating voltage range of 12V to 24V DC, accepts 5V signal
- Ambient operating temperature range of 0-40°C
- LED lifetime rating of 50,000 hours

OVERVIEW

The C-3-72-Mini is an onboard in-line 3-channel LED controller for integration into commercial and professional LED lighting installations. Its compact onboard form factor eliminates the need for additional wiring or external connectors, suiting retrofit and new-construction applications where space and installation efficiency are priorities.

The controller operates across an input voltage range of 12V to 24V DC and accepts a 5V signal, with a rated output of 72W at 12V and up to 144W at 24V. Three independent channels allow separate control of intensity, color, or effects across different lighting zones within a single system. It carries an ambient operating temperature range of 0-40°C and an LED lifetime rating of 50,000 hours.

SPECIFICATIONS

OPTICAL

LED Lifetime	50,000 h
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ELECTRICAL

Operating Voltage	12-24 V
Wattage	72-144 W

ENVIRONMENTAL

Ambient Operating Temperature	0-40 °C 32-104 °F
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ORDERING

Warranty	1 y
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APPLICATIONS

- Commercial LED strip installations
- Retrofit lighting upgrades
- Multi-zone RGB lighting systems
- New-construction lighting integration

PROVENANCE — REVIEW COPY ONLY

slug	value	source	confidence
led_lifetime_h	50,000 h	db	high
operating_voltage	12-24 V	db	high
wattage	72-144 W	db	high
ambient_temp_c	0-40 °C	db	high
warranty_years	1 y	db	high

Specifications subject to change without notice.