



Description

Dimming: Flicker-free 0-100%	Input Voltage Range: 10-26VDC
UL Listed: E484917	Max. Output Current: 10A
Certifications: EN55015; FCC Part 15	Max. Output Power: 260W
Dimensions: 56x37x14.5mm (LxWxH)	Power Efficiency: up to 97%
Warranty: 5 years	MADE IN THE USA

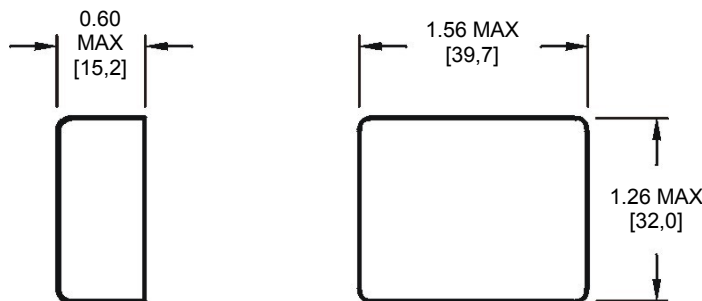
Applications

Architectural • Effect/Contour • Street • Signage • Strip • Office • Compatible with Constant Voltage Drivers

Product Features

- Provides flicker-free PWM dimming in 0-10V applications
- Suitable for dry/damp locations
- Offers flexibility in an easy-to-use, compact size
- Combines with AC-DC driver to enable dimming of LED fixtures
- Compact size fits in most LED drivers' built-in junction boxes

Physical Specifications



ERGL-DIM

(DC/DC 0-10V LED Dimming Module)

Input Specifications (Note 1)

Input Voltage Range	10VDC - 26VDC
Input Current	10A max
Control Voltage	0 - 10 VDC Dimmer or Dimming System must be capable of sinking 1.5mA per ERGL-DIM connected
Control Range	0 -100% ($\leq 1V = 0\%$ light output; $>8V = 100\%$ light output)

Output Specifications

Output Current*	10A max at full load	Dimming Ratio	1500:1
Power Efficiency	97% Typ	Output Frequency	1 KHz nominally, 250Hz at minimum duty cycle

* ERGL-DIM maximum output current is dependent on LED driver output current.

Safety & Environmental Specifications

Relative Humidity	5% to 95%
Storage Temperature	- 40°C to 85°C
Operating Ambient Temperature	- 20°C to 40°C (up to 60°C with derating)

Protections:

Over Voltage:	Auto Recovery when input voltage drops back under V_{in} (max)
Under Voltage Lockout:	Auto Recovery when input voltage rises over V_{in} (min)

Mechanical Specifications

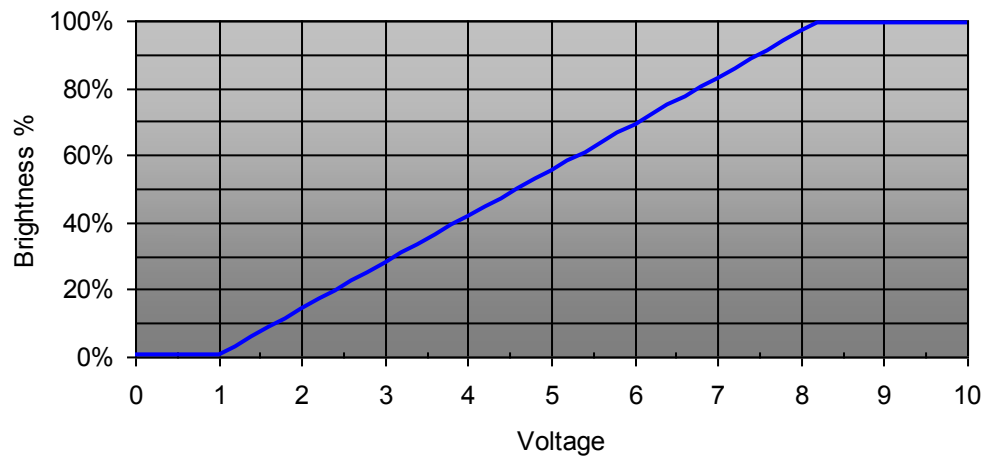
Size	2.2"L x 1.46"W x 0.57"H (56mm x 37mm x 14.5mm)
Weight	0.075 lbs (35g)
Wire Lead Length	6" (152.4mm)
Case Material	Plastic Casing

Notes

1. All specifications are typical at 120VAC input and 25°C with full load, unless otherwise specified.
2. To be installed inside an ultimate enclosure.

Dimming

Dimming Characteristics



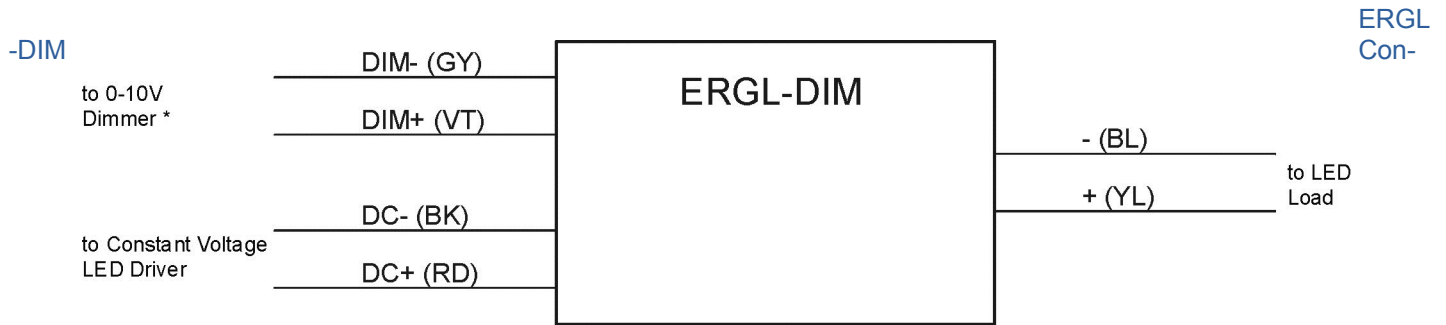
Dimming Control

Parameter	Min.	Typ.	Max.	Notes
Absolute maximum voltage on the 0~10 V input pin	0 V	-	12 V	
Source current on 0~10 V input pin	200 μ A	-	1.5 mA	

The dimmer control may be operated from either potentiometer or from an input signal of 0~10 Vdc.

Do not connect Dim- (GREY) wire with V- (BLUE) wire.

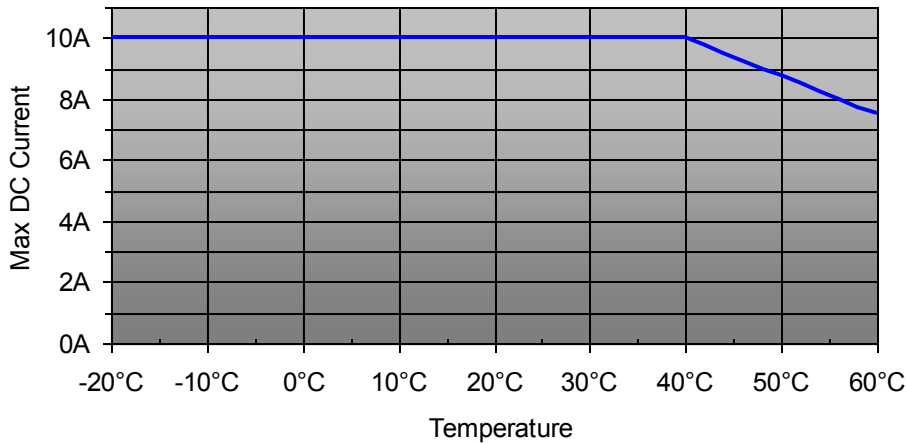
Wiring Diagrams



* 0 - 10 VDC Dimmer or Dimming System must be capable of sinking 1.5mA per ERGL-DIM connected.

Derating

Derating Curve



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