LED Dimmable Driver - 5 in 1 Dimming





Commercial-Grade 5 in 1 Dimmable LED Driver provides smooth, stable, efficient, and flicker-free dimming capability for LED lighting. It is rated for wet and dry locations. It has superior dimming performance and is compatible with many dimmer models of:

- Phase dimming: Triac, ELV (reverse phase dimming), MLV (forward phase dimming)
- 0-10V dimming

Features

- Universal AC input: 100-277VAC
- Flicker-free, f≥20 K Hz
- Dimming Range: 0-100%













- 1-10V dimming
- Potentionmeter
- 10V PWM
- · Compact housing IP66 waterproof design
- UL, cUL listed, Class 2 unit, Type HL rated, FCC
- 5 Year Warranty

Specification

Input

100-277VAC 47-63Hz		
47-63Hz		
0.98@120VAC 0.95@277VAC		
<20%		
83%@120VAC 86%@277VAC		
1.3A@100VAC		
20A, 50%, 1.6ms @120VAC 25A, 50%, 1.2ms @277VAC		
<0.50mA		

Output

DC Voltage	12V 8.3A			
Rated Current				
Rated Power	100W			
Voltage Tolerance	±0.5V			
Voltage Regulation	±0.5%			
Load Regulation	±1%			
Frequency Range	20K HZ			

Environment

Working Temperature	-40~+140°F (see below derating curve)		
Working Humidity	20~90%RH, non-condensing		
Storage Temp. Humidity	-40~+176°F, 10~95%RH		
Temp. Coefficient	±0.03%/°F(32°F~122°F)		
Vibration	10 ~ 500Hz, 5G 10min. /1 cycle, period for 60min. each along X,Y,Z axes		

Protection, Safety& EMC

Short Circuit	Shut down o/p voltage, re-power on to recover after fault condition is removed			
Over Loading	≤120% constant current limiting, auto-recovery			
Over Temperature	rature 212°F±50°F shut down o/p voltage, automatically recover after cooling			
Safety Standards	UL8750			
Withstand Voltage	I/P-O/P:1.88KVAC			
Isolation Resistance	I/P-O/P: 100MΩ/500VDC/77°F/70%RH			
EMC EMISSION	FCC 47 CFR Part 15, Subpart B			

Others

Net Weight	2.87 lb
Dimension	8 ² / ₃₂ x 3 ³ / ₄ x 1 ²³ / ₃₂ in
Packing	20PCS/CTN

Order Information

G	-	100W	-	12V	-	DWJ
Series		Power		Voltage		Model

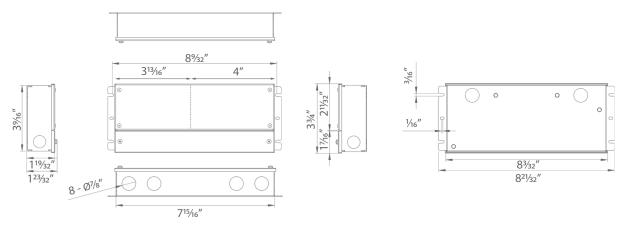
Notes

All parameters if NOT specially mentioned are measured at 120V AC input, rated load and 25°C / 77°F ambient temperature. Warning: Do NOT reverse polarity high voltage input of the driver as it will destroy the product.

Asynchrony can occur when using multiple drivers in a project due to driver virtual signals and component skew. It is recommended to use the same model of driver to ensure the consistency of the driver.

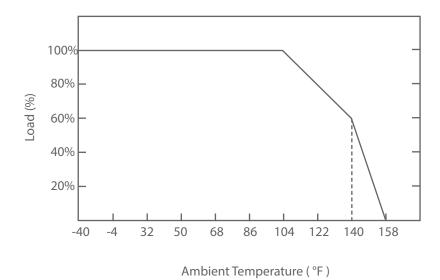
Dimensions

Units: inch



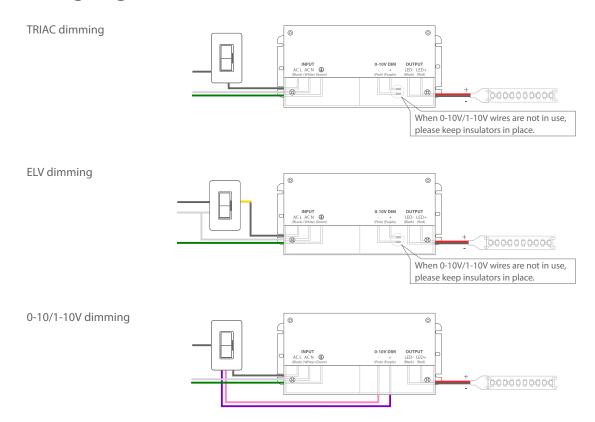
GL LED US LIGHTING reserves the right to modify this specification without prior notices.

Derating Curve



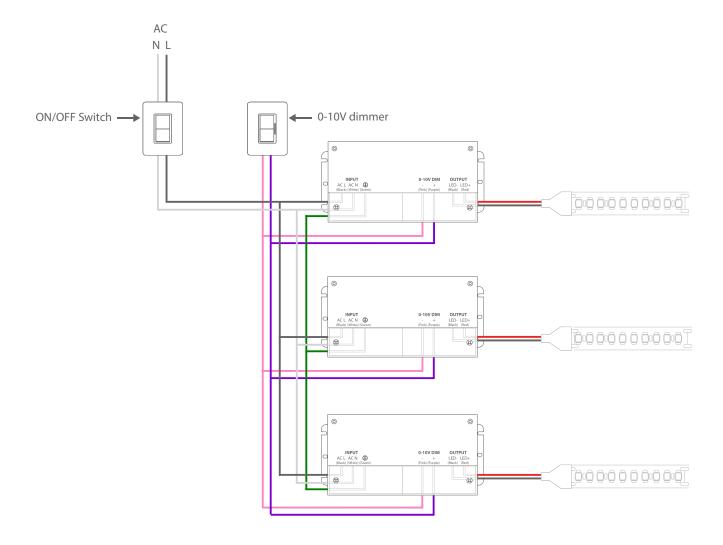
* The Derating curve is a graph that shows how the maximum current rating of a component decreases as the ambient temperature increases. Strong recommendation used in environments less than 104°F.

Connecting Diagram



^{*} Note: Dimmer switch wiring for reference use only. Please follow wiring instructions provided with the dimmer switch.

0-10V/1-10V dimmer for large scope projects.



Note: Dimmer switch wiring for reference use only. Please follow wiring instructions provided with the dimmer switch.

For a large scope project: The 5 in 1 dimmable driver signal power consumption is 0.2mA/pc. When using one 0-10V dimmer and multiple 5 in 1 dimmable drivers for a large scope project, please check the dimmer signal output to calculate the quantity of drivers it can carry.

For example, Lutron Diva 0-10V Dimmer DVSTV signal output is 50mA, it can carry up to 200pcs of the 5 in 1 dimmable driver (50mA/0.2 mA*80%=200pcs, using 80% capacity).

Notice

- 1. This driver should be installed by a qualified professional;
- 2. Before commencing any installation or maintenance work, disconnect the driver from AC power entirely;
- 3. Maintain 4-6 inches clearance around the driver and make sure that it is exposed to open airflow. Do not mount the driver near a heat source. High temperature will reduce the load capacity of the driver and shorten the life;
- 4. When using the driver at a wet location, make sure the connection between the driver and the lighting fixture is watertight;
- 5. If the driver does not work properly, do not disassemble it for maintenance without permission.