# 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

- 1-10V dimming
- Potentionmeter
- 10V PWM

## **Features**

- Universal AC input: 110-277VAC
- Dimming Range: 0-100%
- Flicker-free, f≥20 K Hz
- **IP 66**











- · Compact housing IP66 waterproof design
- UL, cUL listed, Class 2 unit, Type HL rated, FCC
- 5 Year Warranty

# **Specification**

## Input

Voltage Range 110-277VAC		
Frequency Range	47-63Hz	
Power Factor (Typ). @ full load	0.99@120VAC 0.95@277VAC	
THD(Typ.)@ full load	<20%	
Efficiency(Typ.)@ full load	88%@120VAC 92%@277VAC	
AC Current(Max.)	3.4A@100VAC	
Inrush Current (Typ.)	20A, 50%, 1.9ms @120VAC 35A, 50%, 1.9ms @277VAC	
Leakage current	<0.50mA	

## Output

DC Voltage	12V	
Rated Current	25A	
Rated Power	300W	
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)		
<b>Working Humidity</b>	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% Hiccup mode, recovers automatically after fault condition is removed		
Over Temperature	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	4.4 lb
Dimension	10 <sup>15</sup> / <sub>16</sub> x 4 <sup>11</sup> / <sub>32</sub> x 1 <sup>29</sup> / <sub>32</sub> in
Packing	10PCS/CTN

## **Order Information**

Series	Power	Voltage	Model
G	300W	- 12V	- DWJ

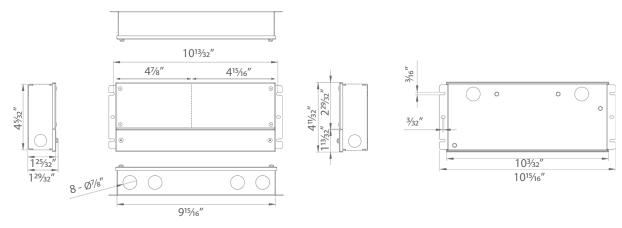
#### Notes

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.

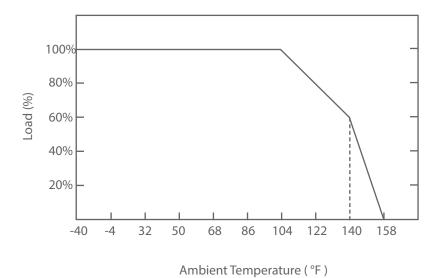
## **Dimensions**

## Units: inch



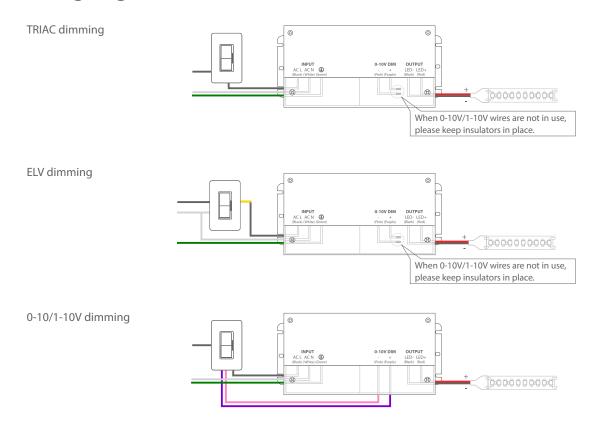
GL LED US LIGHTING reserves the right to modify this specification without prior notices.

# **Derating Curve**



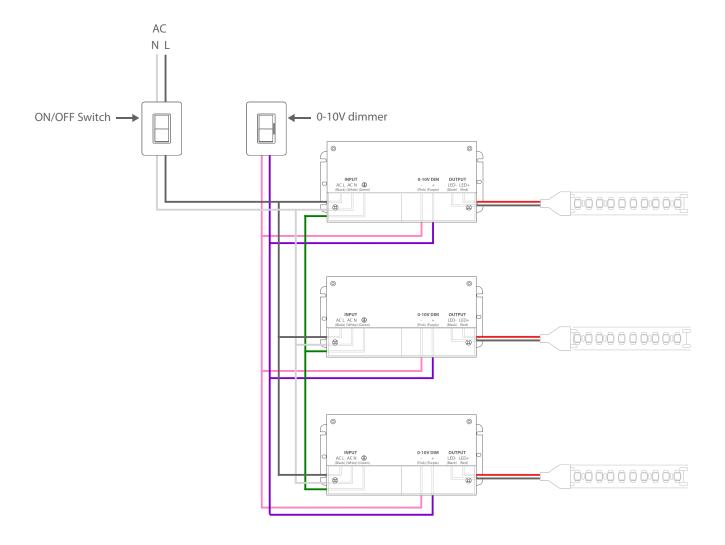
<sup>\*</sup> The Derating curve is a graph that shows how the maximum current rating of a component decreases as the ambient temperature increases. Strong recommendation used in environments less than 104°F.

## **Connecting Diagram**



<sup>\*</sup> 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.