# LED Dimmable Driver - 5 in 1 Dimming

## - G-96W-24V-DWJ



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













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

## **Specification**

#### Input

Voltage Range	100-277VAC 47-63Hz		
Frequency Range			
Power Factor (Typ). @ full load	0.98@120VAC 0.95@277VAC		
THD(Typ.)@ full load	<20%		
Efficiency(Typ.)@ full load	83%@120VAC 86%@277VAC		
AC Current(Max.)	1.3A@100VAC 20A, 50%, 1.6ms @120VAC 25A, 50%, 1.2ms @277VAC		
Inrush Current (Typ.)			
Leakage current	<0.50mA		

#### Output

DC Voltage	24V 4A			
Rated Current				
Rated Power	96W			
Voltage Tolerance	±0.5V			
Voltage Regulation	±0.5%			
Load Regulation	±1%			
Frequency Range	20K HZ			

#### Environment

<b>Working Temperature</b>	-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

<b>Short Circuit</b>	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	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 <sup>2</sup> / <sub>32</sub> x 3 <sup>3</sup> / <sub>4</sub> x 1 <sup>23</sup> / <sub>32</sub> in
Packing	20PCS/CTN

## **Order Information**

G	-	96W	-	24V	-	DWJ
Series		Power		Voltage		Model

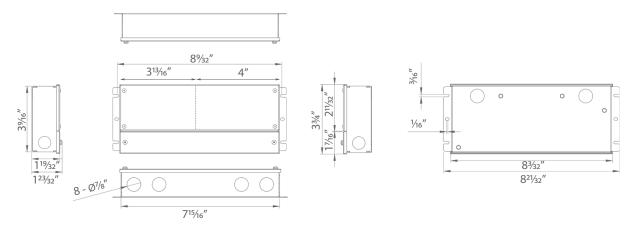
#### Notes

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.

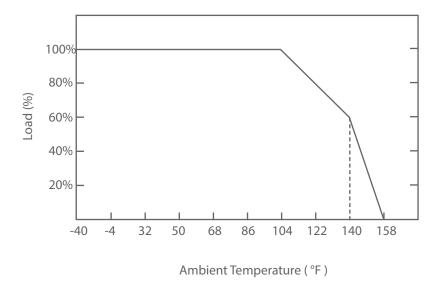
### **Dimensions**

Units: inch



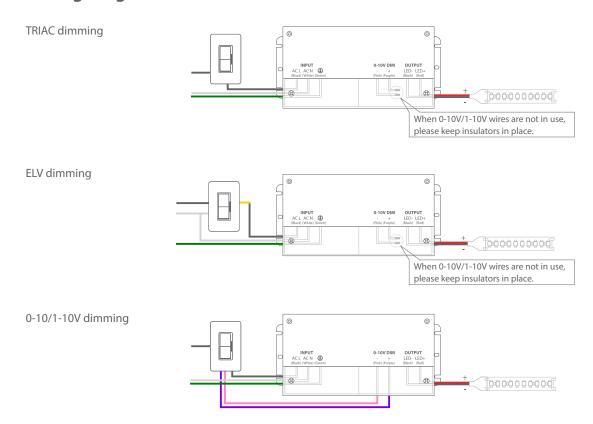
GL LED US LIGHTING reserves the right to modify this specification without prior notices.

## **Derating Curve**



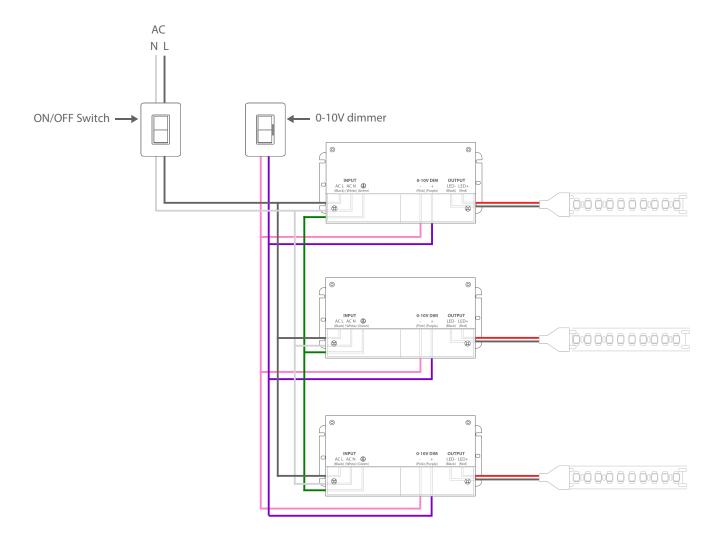
<sup>\*</sup> The Derating curve is a graph that shows how the maximum current rating of a component decreases as the ambient temperature increases. Strong recommendation used in environments less than 104°F.

## **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.