

# LED Dimmable Driver - 5 in 1 Dimming

## - G-150W-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: 110-277VAC
- Flicker-free,  $f \geq 20$  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

<b>Voltage Range</b>	110-277VAC
<b>Frequency Range</b>	47-63Hz
<b>Power Factor (Typ.) @ full load</b>	0.99@120VAC 0.94@277VAC
<b>THD(Typ.)@ full load</b>	<20%
<b>Efficiency(Typ.)@ full load</b>	85%@120VAC 87%@277VAC
<b>AC Current(Max.)</b>	1.8A@100VAC
<b>Inrush Current (Typ.)</b>	15A, 50%, 1.4ms @120VAC 30A, 50%, 1.4ms @277VAC
<b>Leakage current</b>	<0.50mA

#### Output

<b>DC Voltage</b>	24V
<b>Rated Current</b>	6.25A
<b>Rated Power</b>	150W
<b>Voltage Tolerance</b>	±0.5V
<b>Voltage Regulation</b>	±0.5%
<b>Load Regulation</b>	±1%
<b>Frequency Range</b>	20K HZ

#### Environment

<b>Working Temperature</b>	-40~+140°F (see below derating curve)
<b>Working Humidity</b>	20~90%RH, non-condensing
<b>Storage Temp. Humidity</b>	-40~+176°F, 10~95%RH
<b>Temp. Coefficient</b>	±0.03%/°F(32°F~122°F)
<b>Vibration</b>	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
<b>Over Loading</b>	≤120% constant current limiting, auto-recovery
<b>Over Temperature</b>	212°F±50°F shut down o/p voltage, automatically recover after cooling
<b>Safety Standards</b>	UL8750
<b>Withstand Voltage</b>	I/P-O/P:1.88KVAC
<b>Isolation Resistance</b>	I/P-O/P: 100MΩ/500VDC/77°F/70%RH
<b>EMC EMISSION</b>	FCC 47 CFR Part 15, Subpart B

### Others

<b>Net Weight</b>	3.97 lb
<b>Dimension</b>	10 <sup>9</sup> / <sub>32</sub> x 4 <sup>5</sup> / <sub>32</sub> x 1 <sup>15</sup> / <sub>16</sub> in
<b>Packing</b>	10PCS/CTN

## Order Information

Series	Power	Voltage	Model
<b>G</b>	<b>150W</b>	<b>24V</b>	<b>DWJ</b>

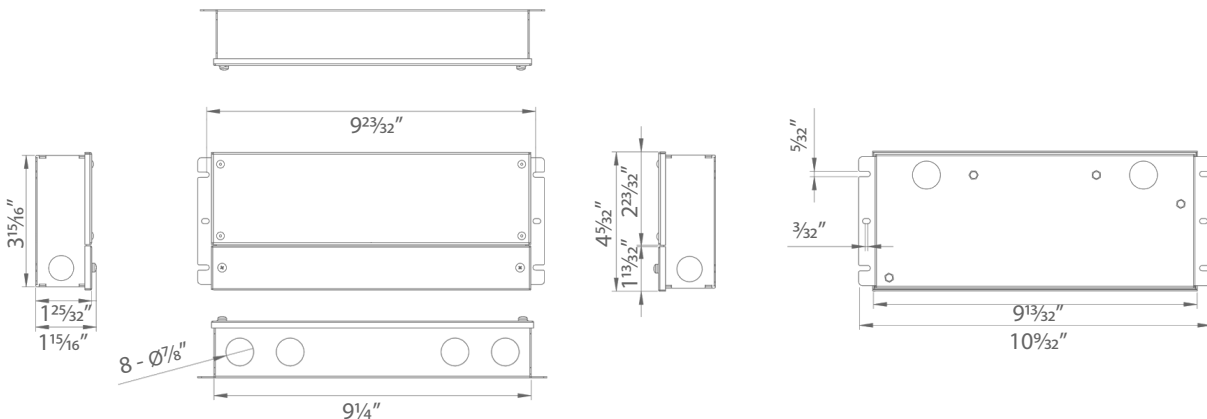
### Notes

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.

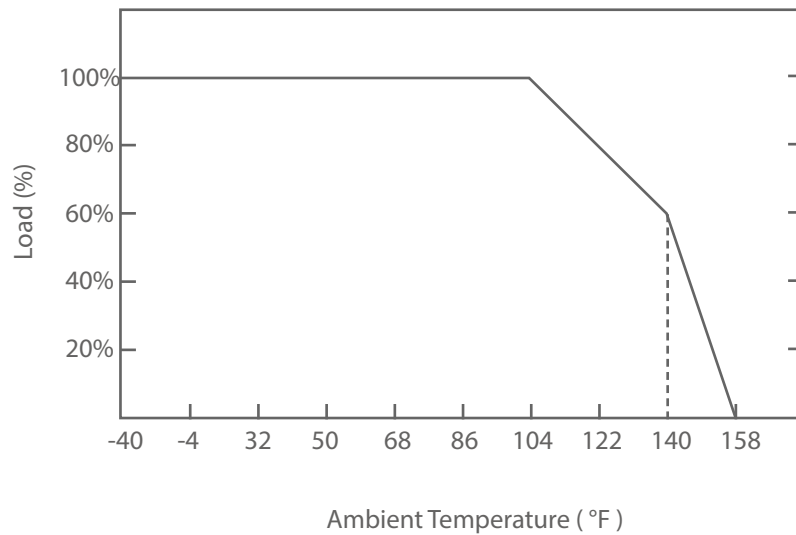
Asynchrony can occur when using multiple drivers in a project due to driver virtual signals and component skew. It is recommended to use the same model of driver to ensure the consistency of the driver.

## Dimensions

Units: inch



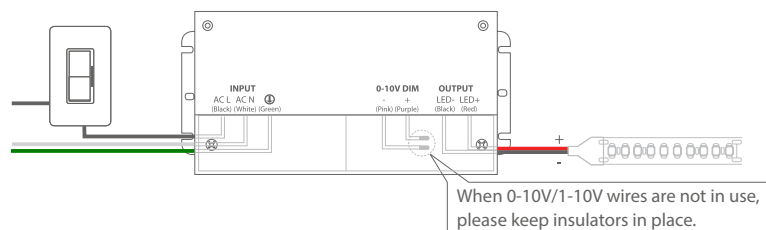
### Derating Curve



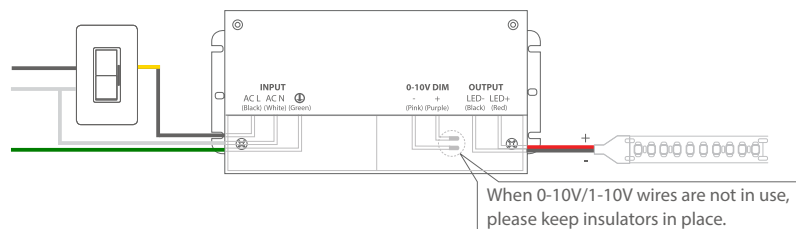
\* The Derating curve is a graph that shows how the maximum current rating of a component decreases as the ambient temperature increases. Strong recommendation used in environments less than 104°F.

### Connecting Diagram

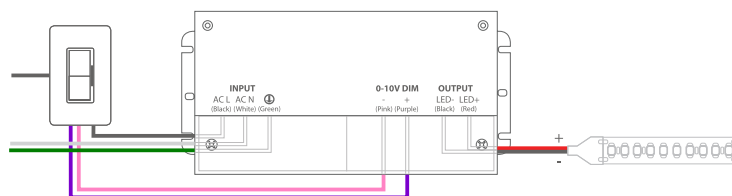
TRIAC dimming



ELV dimming

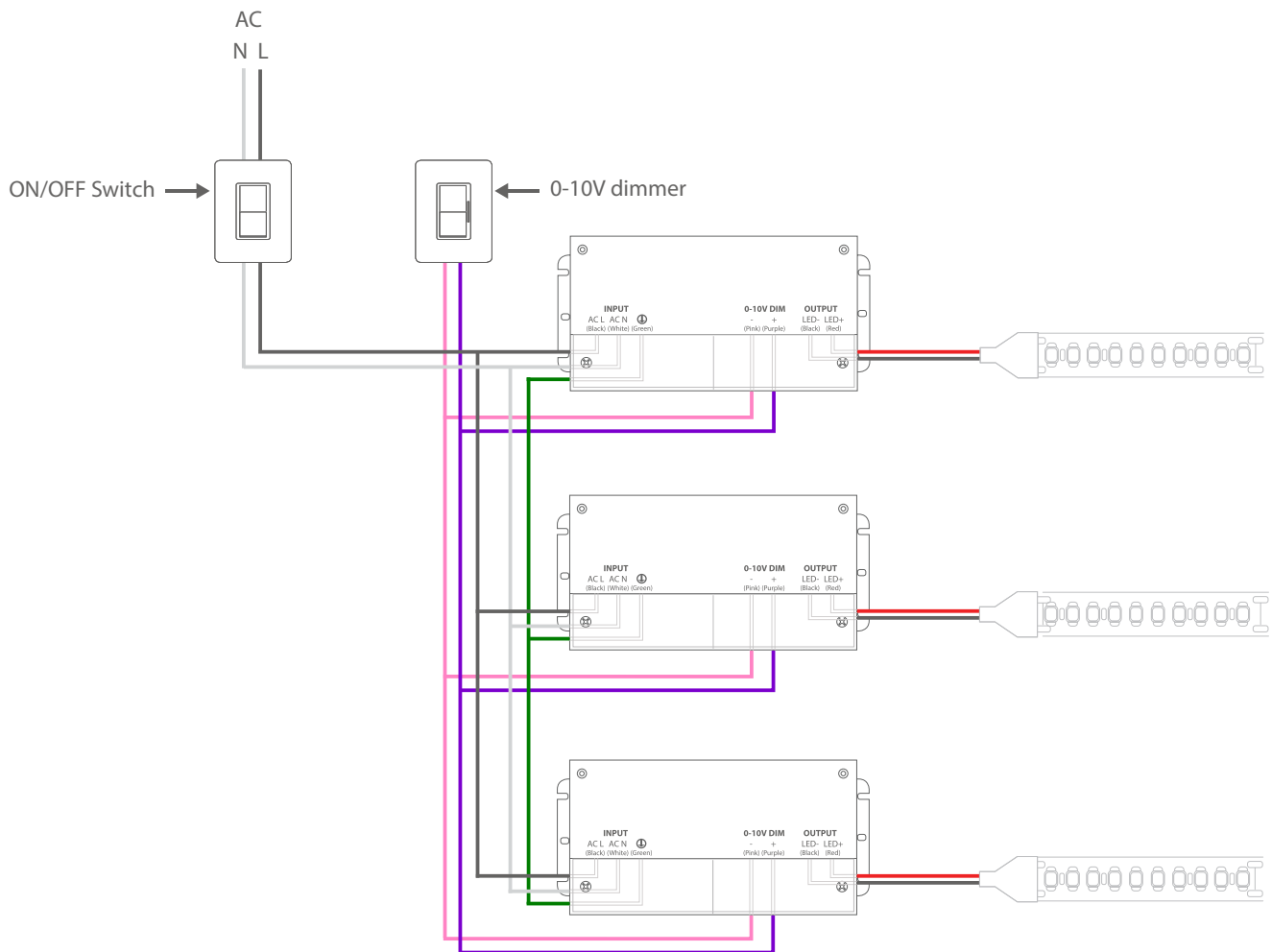


0-10V/1-10V dimming



\* 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 ( $50\text{mA}/0.2\text{mA} \times 80\% = 200\text{pcs}$ , 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.