LED Dimmable Driver - 5 in 1 Dimming

- G-600W-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

Features

- Universal AC input: 110-277VAC
- 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

Output



Specification

Input

Voltage Range	110-277VAC	
Frequency Range	47-63Hz	
Power Factor (Typ). @ full load	PF≥0.96	
THD(Typ.)@ full load	≤10%@120VAC	
Efficiency(Typ.)@ full load	90.3%@120VAC 93.45%@277VAC	
AC Current(Max.)	5.9A	
Inrush Current (Typ.)	52A, 810us@50%110VAC 76A, 148us@50%277VAC	
Leakage current <0.50mA		

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DC Voltage	24V		
Rated Current	25A		
Rated Power	600W		
Voltage Tolerance	±0.5V		
Voltage Regulation	±0.5%		
Load Regulation	±1%		

Environment

Working Temperature	-40~+140°F (see below derating curve)	
Working Humidity	20~95%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 12min. /1 cycle,period for 72min. each along X,Y,Z axes	

Protection, Safety& EMC

Short Circuit	Hiccup mode, recovers automatically after fault condition is removed		
Over Loading	≤120% constant current mode, recovers automatically after fault condition is removed		
Over Temperature	Shell surface temp.212°F±50°F shut down o/p voltage, automatically recover after drops.		
Safety Standards	UL8750		
Withstand Voltage	I/P-O/P: 1.8KVAC I/P-FG: 1.8KVAC O/P-FG1.8KVAC		
Isolation Resistance	I/P-O/P: 100MΩ/500VDC/77°F/70%RH		
EMC EMISSION	FCC 47 CFR Part 15, Subpart B		

Others

Net Weight	5.7 lb
Dimension	111/ ₃₂ x 5 ¹⁷ / ₃₂ x 1 ³¹ / ₃₂ in
Packing	10PCS/CTN

Order Information

Series	Power	Voltage	Model
G	- 600W	- 24V	DWJ

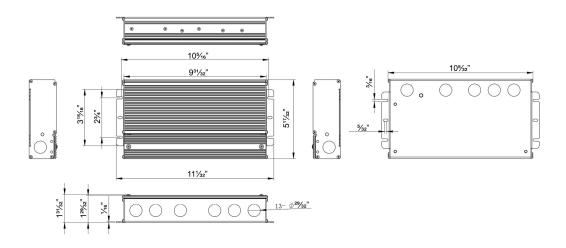
Notes

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.

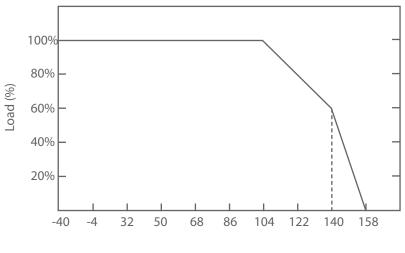
Asynchrony can occur when using multiple drivers in a project due to driver virtual signals and component skew. It is recommended to use the same model of driver to ensure the consistency of the driver.

Dimensions

Units: inch



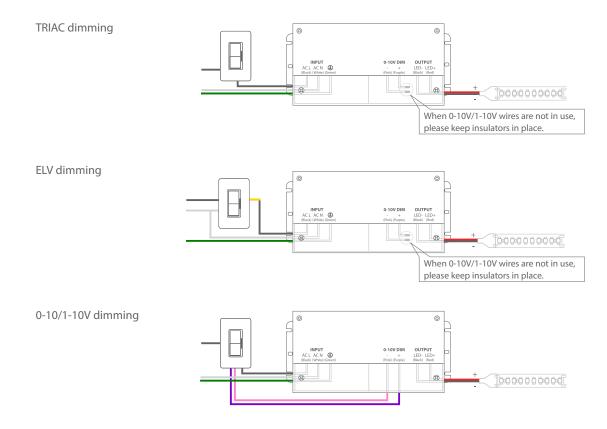
Derating Curve



Ambient Temperature (°F)

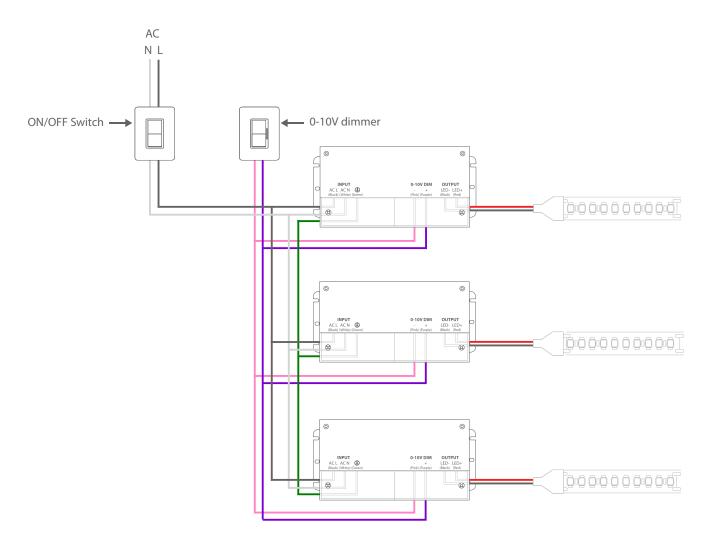
* The Derating curve is a graph that shows how the maximum current rating of a component decreases as the ambient temperature increases. Strong recommendation used in environments less than 104°F.

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.



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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.