

Constant Voltage Dimmable LED Driver 5-IN-1 Dimming | Triac/0-10V/1-10V/10V PWM/Potentiometer

Features

- 5-way universal dimming
- Smooth flicker-free dimming, down to 0.1%
- PF>0.95, dimming range: 0.1-100%, flicker-free
- PWM Output: 4000Hz constant frequency (Different frequencies can be customized: 250-20000Hz)
- Short-circuit, over-temperature, over-load protection
- Super low loading request, works perfect at 10-100% load
- High-quality aluminum housing for dry, damp, wet location
- Build in active PFC, typical power factor > 0.95, THD<10%@120V Max. Load.
- Dimming curve can be customized
- 5-year warranty



















12V, 24V OR 48VDC 110-277V

Description: Constant voltage dimmable LED driver

Driver Type: LED Driver without junction box

Dimming: 5-way dimming: forward phase (MLV), reverse

phase (ELV), 0-10V, PWM, and potentiometer

Dimming Range: 0.1-100%, flicker-free, ultra deep amplitude

Output Dimming Method: PWM, 4000Hz Constant frequency

Flicker: Meets California Title 24 / JA8

Input Voltage: 110-277VAC, 50/60Hz

Output Voltage: DC12V, 24V or 48V

Wattage: 200W

Application: Suitable for dry, damp and wet location

Certifications: UL, FCC

Warranty: 5-Year

Model	Max Power	Output
DUD200IP65-12V	200W	12V
DUD200IP65-24V	200W	24V
DUD200IP65-48V	200W	48V

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Model Number		DUD200IP65-12V	DUD200IP65-24V	DUD200IP65-48V			
Output	Rated Power						
	Rated Voltage	DC12V	DC24V	DC48V			
	Rated Current	16.66A	8.33A	4.16A			
	Voltage Tolerance	±0.5V					
	Voltage Regulation	±0.5%					
	Load Regulation	±1%					
	Voltage Range	110-277V					
	Frequency Range	47-63Hz					
	Efficiency (Typ.)	90% @ 120VAC 91% @ 277VAC					
I4	THD	THD<15% (@100% load)					
Input	Power Factor (Typ.)	0.99@120VAC 0.98@277VAC					
	AC Current (Typ.)	2.06A					
	Inrush Current (Typ.)	30A					
	Leakage Current	<0.5mA					
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.					
Protection	Overload	Intelligently reduce the output voltage, auto-recovery or re-power on to recovery					
	Over Temperature	$100^\circ\!$					
	Working Temp.	Tcase = -40~+140°F (-40~+60°C) (Please refer to "OUTPUTLOAD vs TEMPERATURE" section)					
	Working Humidity	20 ~ 95% RH non-condensing					
Environment	Storage Temp. Humidity	y -40~+194°F (-40~+90°C), 10~95% RH					
	Temp. Coefficient	±0.03%/°C (0~50°C)					
	Vibration	$10{\sim}500$ Hz, 5G 10min./1 cycle, period for 60min. each along X,Y,Z axes					
Safety & EMC	Safety Standards	UL8750, Class P					
	Withstand Voltage	I/P-O/P:1.88KVAC					
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH					
	EMC Emission	Compliance to FCC part 15 Subpart B					

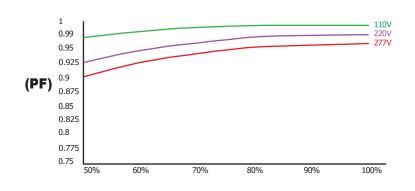
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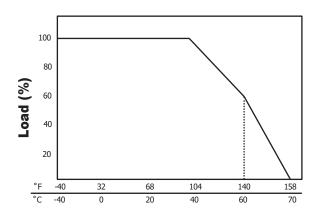


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PFC Load Graph

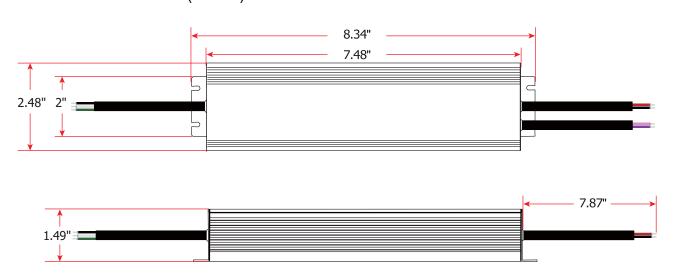
Load vs Ambient Temperature





MECHANICAL DIAGRAMS

Dimension: 212x63x38mm (L*W*H) 8.34"x2.48"x1.49" (L*W*H)



Wire Specification

PMA-A	Input		Output		0/1-10V Dimming				
Power	Function	Color	Spec.	Function	Color	Spec.	Function	Color	Spec.
200W	AC L	Black	18AWG	DC+	Red	12V/14AWG 24V/18AWG 48V/18AWG	Dim+	Purple	18AWG
	AC N	White	18AWG	DC-	Black		Dim-	Pink	18AWG
	Ground	Green	18AWG	/	1	/	/	/	/

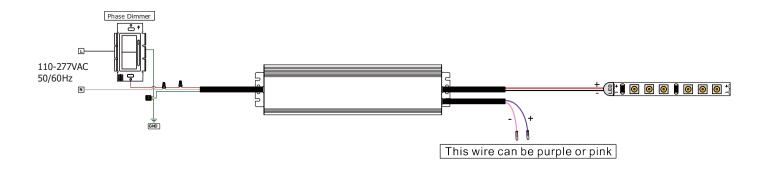
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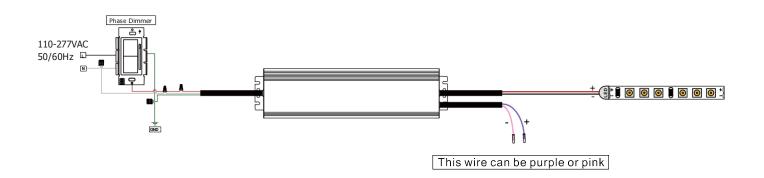
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Wiring Diagram

A.TRIAC/MLV (Leading Edge) Dimmer Wiring Diagram



B.Electronic Low Voltage (ELV) Dimmer Wiring Diagram



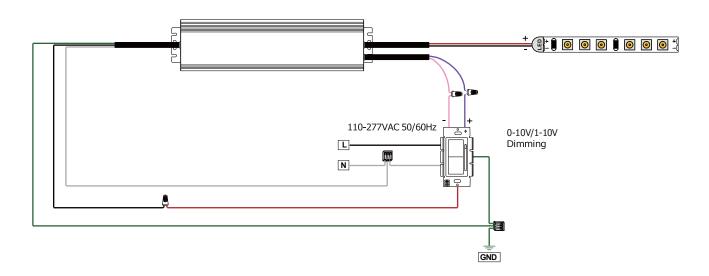
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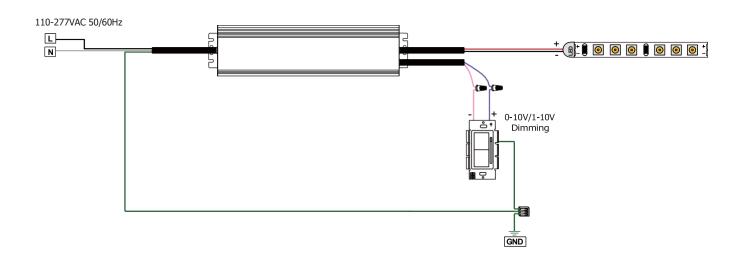
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Wiring Diagram

C.0-10V/1-10V Dimmer Wiring Diagram (The driver input is connected to the dimmer.)



D.0-10V/1-10V Dimmer Wiring Diagram (The driver is independently connected to the input.)



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