

SPEC SHEET: WAVELUX INDOOR/OUTDOOR UNIVERSAL DIMMABLE LED DRIVER 96W

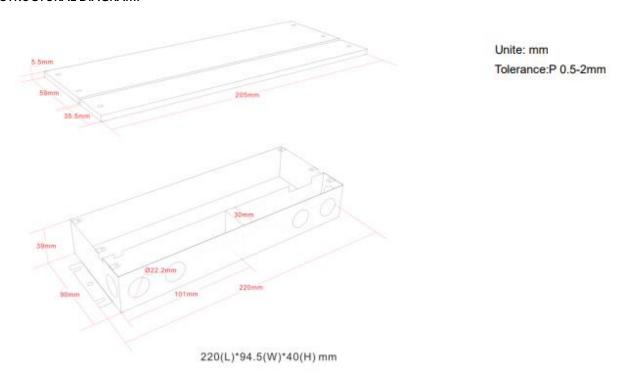
The Wavelux Indoor/Outdoor Universal Dimmable LED Driver is a sophisticated driver for virtually any single color 24V LED Strip Light. The universal dimmable driver allows for a full 0-100% dimming range, flicker-free output that is compatible with Forward Phase, Reverse Phase, Triac, MLV, ELV dimmers and the full protective IP66 housing allows for dry (indoors), damp and wet locations (outdoors), while providing knockout for mounting in nearly any environment. Ideal for schools, commercial buildings, residential, signage, retail and more, this driver is your all-in-one contractor grade LED Strip power supply that works with most brands of LED wall dimmers. With built-in safety features like short circuit protection, overload, no-load, and over temperature control, the fan-less design means a quiet, flicker-free operation. Works with all 24V Pixel-Free LED and Wavelux LED Products, among most other LED Strip lights.



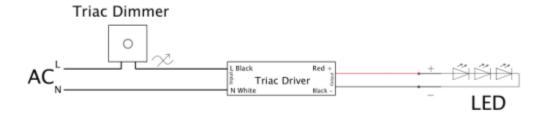
Model Certificates		KVF-24096-TDWJN			
		FCC UL cUL Class 2			
Output	DC Voltage	24V			
	Rated Current	4A			
	Rated Power	96W			
	Voltage Tolerance	±0.5V			
	Voltage Regulation	±0.5%			
	Load Regulation	±1%			
Input	Voltage Range	100-277VAC			
	Frequency Range	47-63Hz			
	Power Factor (Typ.) @ full load	0.98@120VAC 0.96@277VAC			
	THD (Typ.) @ full load	<20%			
	Efficiency (Typ.) @ full load	83%			
	AC Current (Max.)	1.3A@100VAC			
	Inrush Current (Typ.)	20A, 50%, 1.6ms			
	Leakage current	<0.50mA			
Protection	Short Circuit	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	100 ℃±10 ℃ shut down o/p voltage, automatically recover after cooling.			
Environment	Working TEMP.	-40~+60℃ (see below derating curve)			
	Working Humidity	20~90%RH, non-condensing			
	Storage TEMP. Humidity	-40~+80℃, 10~95%RH			
	TEMP .coefficient	±0.03%/°C (0~50°C)			
	Vibration	10∼500Hz, 5G 10min./1 cycle,period for 60min. each along X,Y,Z axes			
Safety& EMC	Safety standards	UL8750+UL1310			
	Withstand voltage	I/P-O/P:1.88KVAC			
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH			
	EMC EMISSION	FCC Part 15 B			
others	Net. Weight	1.3Kg			
	Size	220*93*41mm (L*W*H)			
	packing	10PCS/CTN			
	1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25 ℃of ambient				
Notes	temperature.				
	To extend the driver's using life ,please reduce the loading at lower input voltage.				
	2. To exterior the driver's using life ,please reduce the loading at lower input voltage.				

COMPANY	PROJECT	AREA	APPROVED BY	DATE

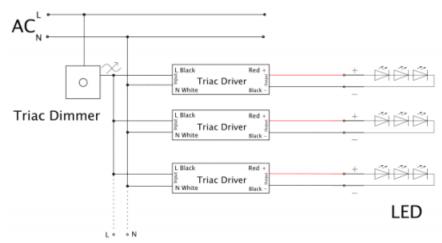
STRUCTURAL DIAGRAM:

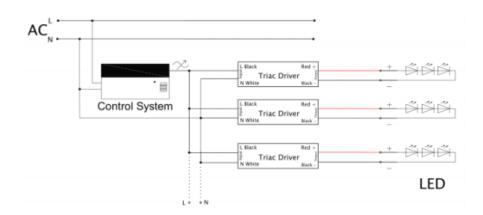


WIRING DIAGRAM

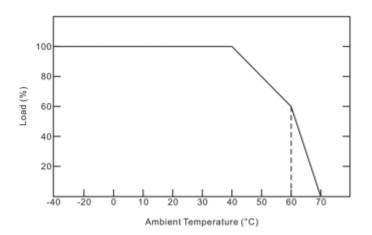


Input Wire: 18AWG Black and White to be connected to AC Line (L) and Neutral (N), Green Wire connect to Ground Output Wire: 16AWG Red to LED Positive Side (+), Black to LED Negative side (-)





DERATING CURVE





DIMMING OPERATION

The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of AC phase line (L) by connecting a phase/triac dimmer.

Typically this driver is paired with compatible with Forward phase, leading edge, Magnetic Low Voltage (MLV), Triac, trailing edge, Reverse Phase, Electronic Low Voltage (ELV) Dimmers, see connecting diagram on dimmer switch for proper wiring.

PRO-TIP: Match dimmers with at least 1.5x the output power of the driver. For instance, use dimmer switch with compatibility of 150W or more for best results.

FAQ

Is this capable of being used both indoor and outdoors?

Yes, the rating is IP66 and rated for both indoor and outdoor applications. Be sure to use proper ventilation when using to avoid the power supply overheating.

Will this power supply be suitable for contractor use?

YES! This driver should be the go-to driver in any electrical contractor's bag. It's compatible with most LEDs and wall dimmer switches, has all the certifications most contractors will require (UL, cUL, FCC, RoHS, Class 2, Type HL, etc).

Why is this different than a more common power supply?

This specifically designed LED Strip Universal dimming driver can control a wide range of LED strips, through many off-the-shelf dimmers found at local hardware stores. Most LED power supplies are either not dimmable without extra hardware, or dimmable only with specific dimmers. This power supply gives you far more control and wider dimming range than nearly any other power supply on the market.

PRECAUTIONS

- In order to guarantee sufficient voltage is available to drive LED Strip in all conditions, make sure power supply is rated for 20% more than LED Strip consumption.
- For best results, make sure load (LED Strip power consumption) is within 10-80% of this driver
- Do not touch AC Power Supply when powered on
- Polarity Matters! Make sure to wire positive and negative poles of wires during installation to avoid damage to the strip
- Make sure driver is installed with adequate ventilation around it to allow for heat dissipation
- Product is not intended to be submerged and used in swimming pools or hot tubs
- Professional installation recommended