

Dimmable LED Driver- Triac/ Phase Dimming

SKU#: PW-TDwJ-12100/ PW-TDwJ-24100

■ Features



Model No. KVF-24100-TDWJ/ KVF-C12100-TDWJ

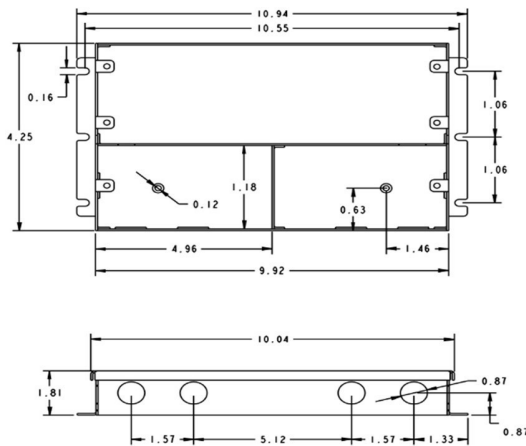
- Triac and Phase Dimming: Suitable for Forward and Revers Phase, ELV, and MLV Dimmers;
- Class2 Constant Voltage Output, 12Vdc or 24Vdc; Input 100-277Vac;
- Built-in active PFC function, Efficiency up to 95%
- Protections: short circuit/over load/ over temperature
- Full protection metal housing, for dry, damp and wet locations
- Suitable for LED lighting



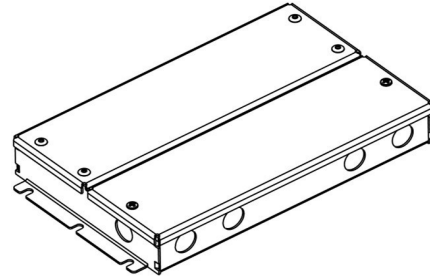
Class 2
TYPE HL



■ Mechanical Specification



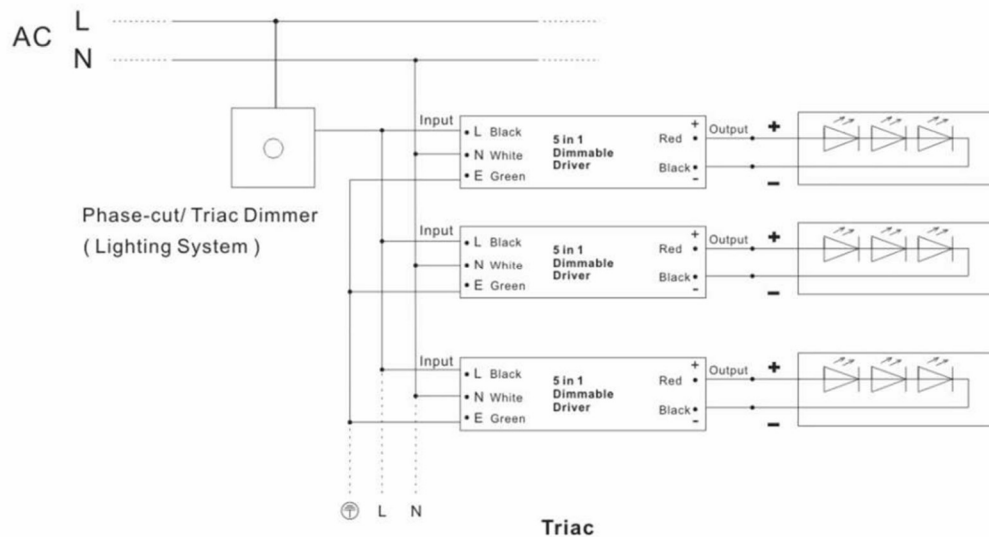
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Input: AC Line- Black, AC Neutral – White, Ground- Green,
Output: Red (+) to LED Positive side (+), Black (-) to LED
Negative side (-).

■ Dimming Operation and Connecting Diagram

TRIAC/ Phase Cut Dimming

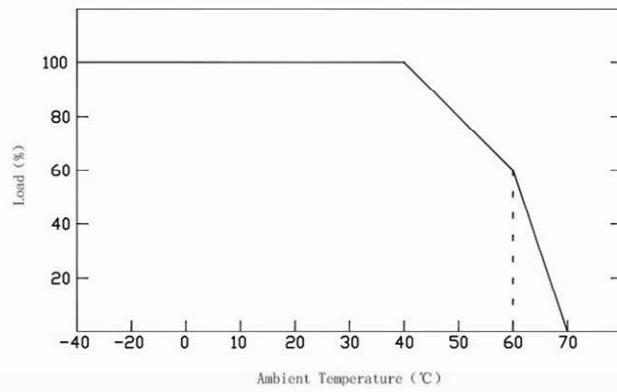


- Working with forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV,TRIAC dimmers 3.Min loading is about 10%

- The drivers can be paralleled providing the dimmer can handle the total wattage of the drivers. Always leave 30% room for the dimmer switch to avoid early fatigue.

Specification			
Model		KVF-12100-TDWJ	KVF-24100-TDWJ
Certifications		UL, cUL, FCC	
Output	Voltage	12 V dc	24 V dc
	Rated Current	8.33A	4.16A
	Rated Power	100W	100W
	Voltage Tolerance	+/- 0.5V	
	Voltage Regulation	+/- 0.5%	
	Load Regulation	+/- 1%	
Input	Voltage Range	100~ 277V AC	
	Frequency Range	47~63 Hz	
	Power Factor (Typ.)@ Full load	0.99 @120Vac 0.94@ 277Vac	
	THD (Typ.) @ full load	<20 %	
	Efficiency (Typ) @full load	86%@ 120Vac 88%@ 277 Vac	
	AC Current (Max)	2.2A @100 Vac	2.3A @100 Vac
	Inrush Current (Typ.)	19A, 50%, 1.3ms @ 120 Vac	38 A, 50%, 960 us @ 277 Vac
	Leakage Current	<0.5mA	
Protection	Short Circuit	Shut Down and Back to Work After Faulty Condition Removed	
	Over Loading	≤120% Hiccup mode, Back to Work After Faulty Condition Removed	
	Over Temperature	100C+/- 10C, Shut Down, and Back to Work When The Driver Cooled Down	
Enrironment	Working TEMP	-40 ~+60 C	
	Working Humidity	20 ~90% RH, Non-Condensing	
	Storage TEMP Humidity	-40~+80 C, 10~95 % RH	
	TEMP. Coefficient	+/-0.03 %/C (0~50 C)	
	Vibration	10~500Hz, 5G 10 Min/ 1 Cycle Period For 60 Min. Each Along X, Y, Z Axes	
Safety & EMC	Safety Standards	UL 8750 + UI1310	
	Withstanding Voltage	I/P -O/P: 1.88 KVAC	
	Isolation Resistance	I/P~ O/P: 100 M Ohm/ 500 Vdc/ 25C/ 70% RH	
	EMC Emission	FCC 47 CFR Part 15, Subpart B	
Others	Net Weight	1.3 Kg	
	Size	220 x 94.5 x 40mm:	
	Packing	300x 270x 230/ 10 pcs/ CTN, 15kg/CTN	

■ Derating Curve



※ To extend their life, please refer to the Derating Curve and reduce load according to the temperature.

Installation Warnings:

- 1) This driver should be installed by qualified professionals;
- 2) Please ensure the driver installed in an adequate ventilation surroundings;
- 3) Carefully check the wiring connections before power on;

