

Constant Current Phase/Triac dimmable driver---45W series

■ Features:

- Output constant current
- Universal AC input: 100-130VAC
- High efficiency :up to 87%
- Protection:short circuit/over loading/over current/ Over temperature
- Full protection plastic housing
- Easy installation
- Cooling by free air convection
- Compatible with Forward & Reverse phase, Triac, ELV Dimmers
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications and others
- Suitable for dry location use only, IP20



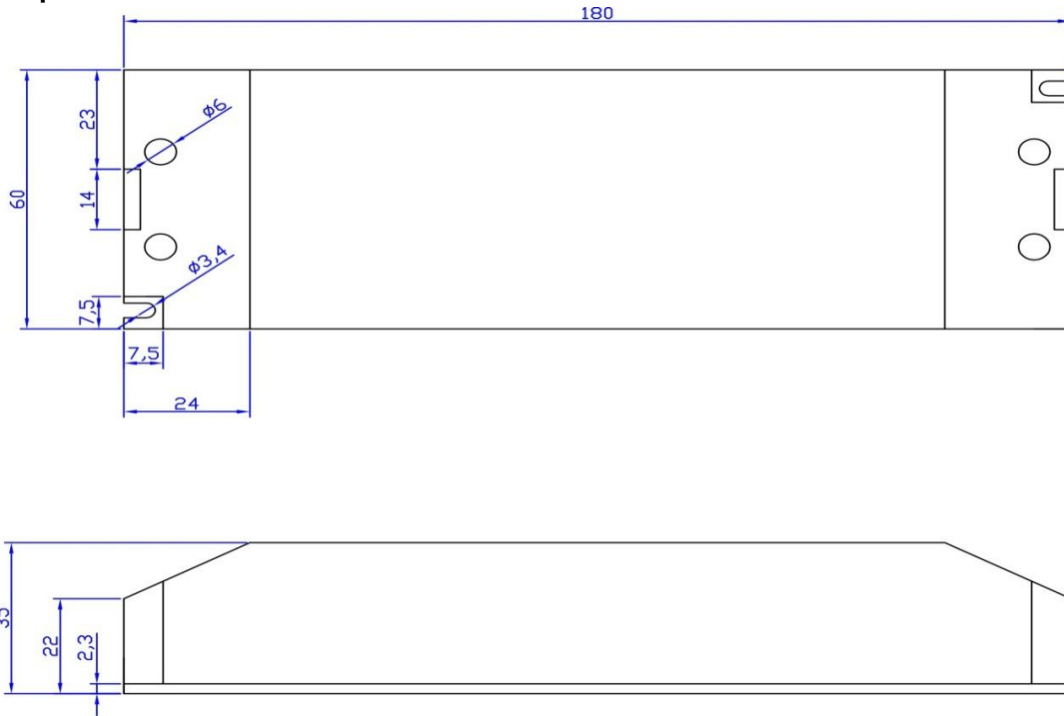
■ Specification

Model	KI-56840-TDL	KI-50900-TDL	KI-451050-TDL	KI-421100-TDL	
<b>Certificates</b>	ETL,FCC				
<b>Output</b>	Rated current	840mA	900mA	1050mA	1100mA
	Current Tolerance	±5%			
	DC Voltage	32-56V	30-50V	25-45V	25-42V
	Open circuit voltage(Max.)	61V	55V	50V	47V
	Rated power	47.04W	45W	47.25W	46.2W
<b>Input</b>	Voltage Range	100~130VAC			
	Frequency Range	47~63HZ			
	Power Factor	PF≥0.95 ( Full loading )			
	Efficiency ( Typ. )	87%	87%	87%	86%
	AC Current ( Max. )	0.59A	0.56A	0.59A	0.58A
	Leakage current	< 0.50mA/120VAC			
<b>Protection</b>	Short Circuit	Hiccup mode, recover automatically after fault condition is removed			
	Over Loading	≤120%			
	Over temperature	100℃±10℃, Shut down o/p voltage, recover automatically after temperature goes down.			
<b>Environment</b>	Working TEMP.	-40~+60℃			
	Working Humidity	20~90%RH, non-condensing			
	Storage TEMP. Humidity	-40~+80℃, 10~90%RH			
	TEMP .coefficient	±0.03%/℃ ( 0~50℃ )			
	Vibration	10~500Hz, 2G 12min./1 cycle,period for 72min. each along X,Y,Z axes			
<b>Safety&amp; EMC</b>	Safety standards	UL8750+UL1310 Class 2 unit			
	Withstand voltage	I/P-O/P:1500VAC			
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25℃/70%RH			
	EMC EMISSION	FCC Part 15 B			
<b>Others</b>	Net. Weight	0.55Kg			
	Size	180*60*35mm (L*W*H)			
	packing	350*195*180mm 20PCS/CTN			

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<b>Notes</b>	<ol style="list-style-type: none"> <li>1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature.</li> <li>2. To extend the driver's using life ,please reduce the loading at lower input voltage.</li> <li>3.Loading should be 60-100%.</li> </ol>
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■ Mechanical Specification for KV series 45W Phase/Triac Dimmable driver



■ Label



※ Input (L) and (N) with wires to be connected AC.

※ Output LED : (LED+) (LED-)

■ Dimming Operation

※ Output power can be adjusted through input terminal of the AC phase line(L) by connection a phase/triac dimmer.

※Forward phase and Reverse phase, ELV, Triac Dimmers

■ Warning

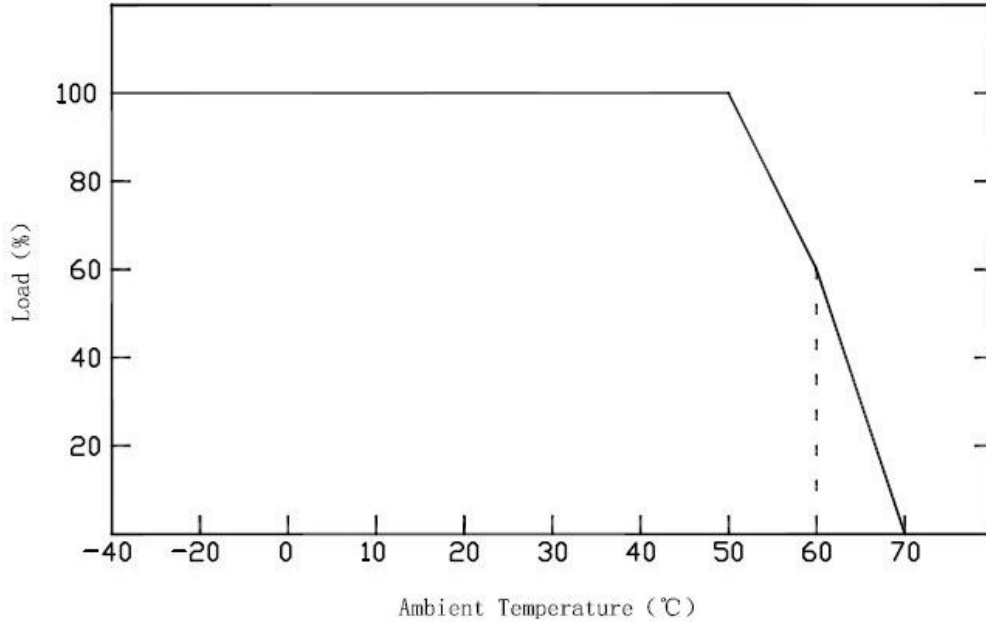
※Prevent to reverse polarity;

※Risk of Electric Shock. When used outdoors, install only on a circuit protected by a Class A GFCI;

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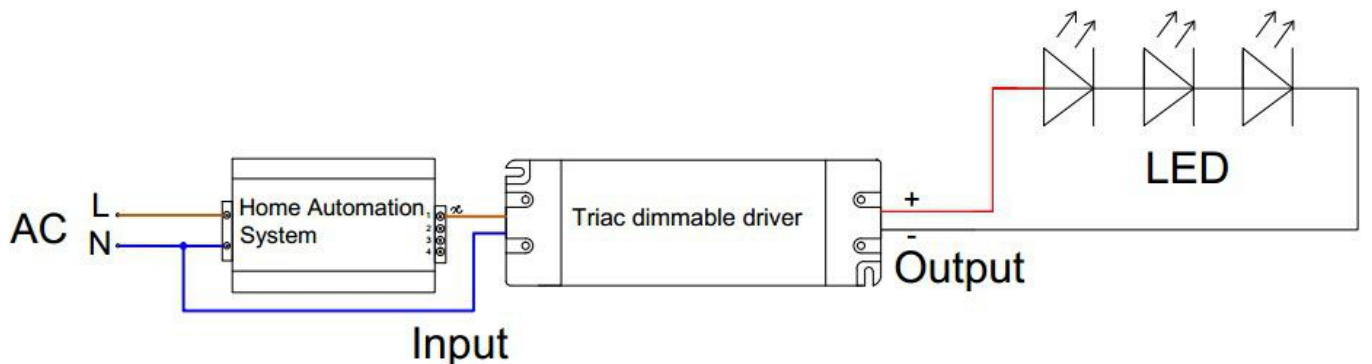
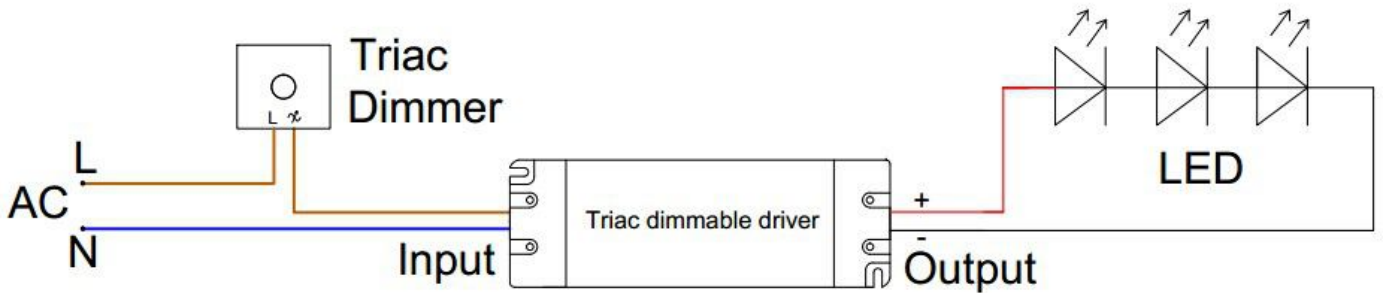
- ※ Risk of Fire. Installation involves special wiring methods to run wiring through a building structure. Consult a qualified electrician;
- ※ Risk of Electric Shock. Mount the unit at a height greater than 1 foot from the ground surface.

■ Derating Curve



※To extend their life, please refer to the Derating Curve and derate according to the temperature

■ Single Driver Connecting Diagram



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Multiple Drivers Connecting Diagram

