

Constant Voltage Phase/Triac dimmable driver---80W series



■ Features:

- Output constant voltage
- Universal AC input: 100-130VAC
- High efficiency :up to 87%
- Protection:short circuit/over loading/over current/ Over temperature
- Full protection aluminum 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
- Provide with a junction box for connection to line voltage
- Suitable for wet location use, IP66



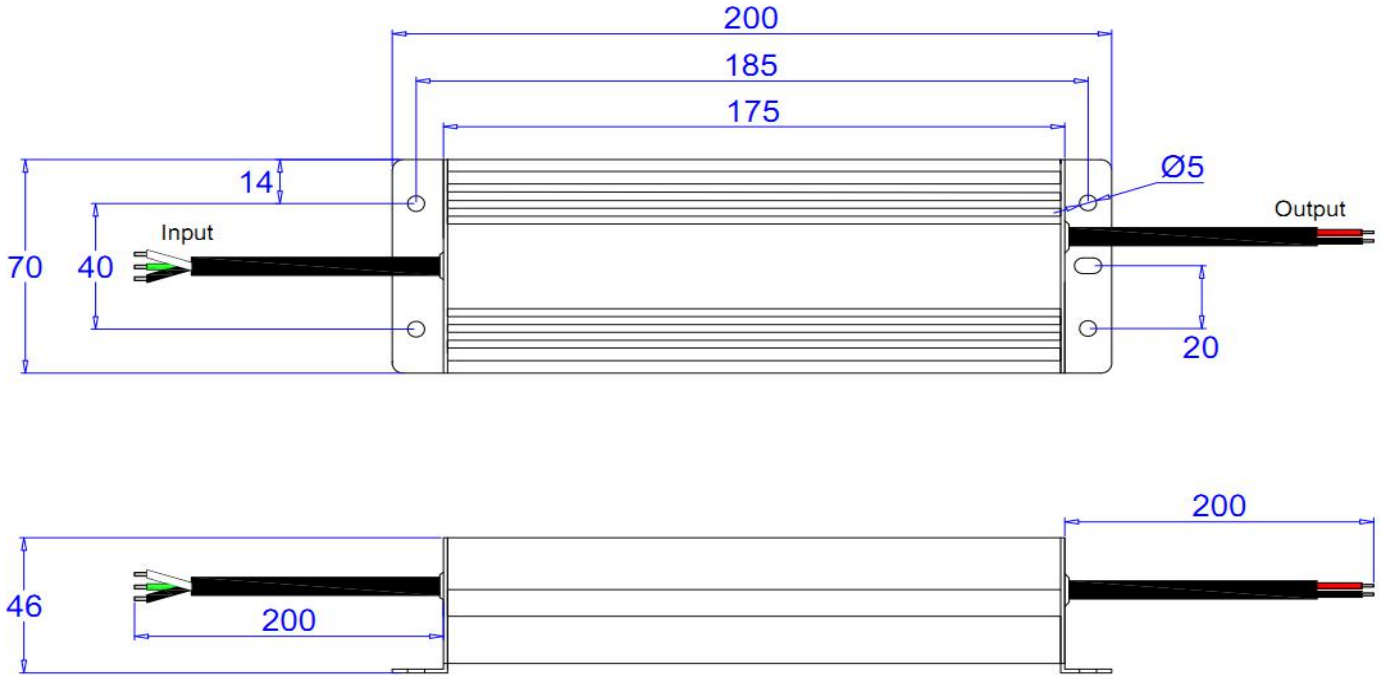
■ Specification

Model	KV-12080-TDL	KV-24080-TDL	KV-36080-TDL	KV-48080-TDL	
Certificates	ETL,cETL,FCC	ETL,cETL,FCC	ETL,cETL,FCC	ETL,FCC	
Output	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±0.5V			
	Rated current	6.6A	3.3A	2.22A	1.67A
	Rated power	80W			
Input	Voltage Range	100~130VAC			
	Frequency Range	47~63HZ			
	Power Factor	PF≥ 0.95 (Full loading)			
	Efficiency (Typ.)	82%	85%	86%	87%
	AC Current (Max.)	1.02A	1A	0.98A	0.96A
	Leakage current	< 0.50mA/120VAC			
Protection	Short Circuit	Hiccup mode, recover automatically after fault condition is removed			
	Over Current	≤1.2*I out			
	Over Loading	≤120%			
	Over temperature	100℃±10℃, Shut down o/p voltage, recover automatically after temperature goes down.			
Environment	Working TEMP.	-40~+60℃			
	Working Humidity	20~95%RH, non-condensing			
	Storage TEMP. Humidity	-40~+80℃, 10~95%RH			
	TEMP .coefficient	±0.03%/℃ (0~50℃)			
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min. each along X,Y,Z axes			
Safety& EMC	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			
Others	Net. Weight	0.95 Kg	1.55Kg (with junction box)		
	Size	200*70*46mm (L*W*H)	350*77*57mm(L*W*H) (with junction box)		
	packing	329*279*176mm 10PCS	350*85*65mm 10PCS		

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Notes	<ol style="list-style-type: none"> 1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature. 2. To extend the driver's using life ,please reduce the loading at lower input voltage. 3.Loading should be 60-100%.
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■ Mechanical Specification for KV series 80W Phase/Triac Dimmable driver



※ Input black(L) and white(N) wires to be connected AC, Green wire to be connected ground; output red and black wires to be connected led lighting.

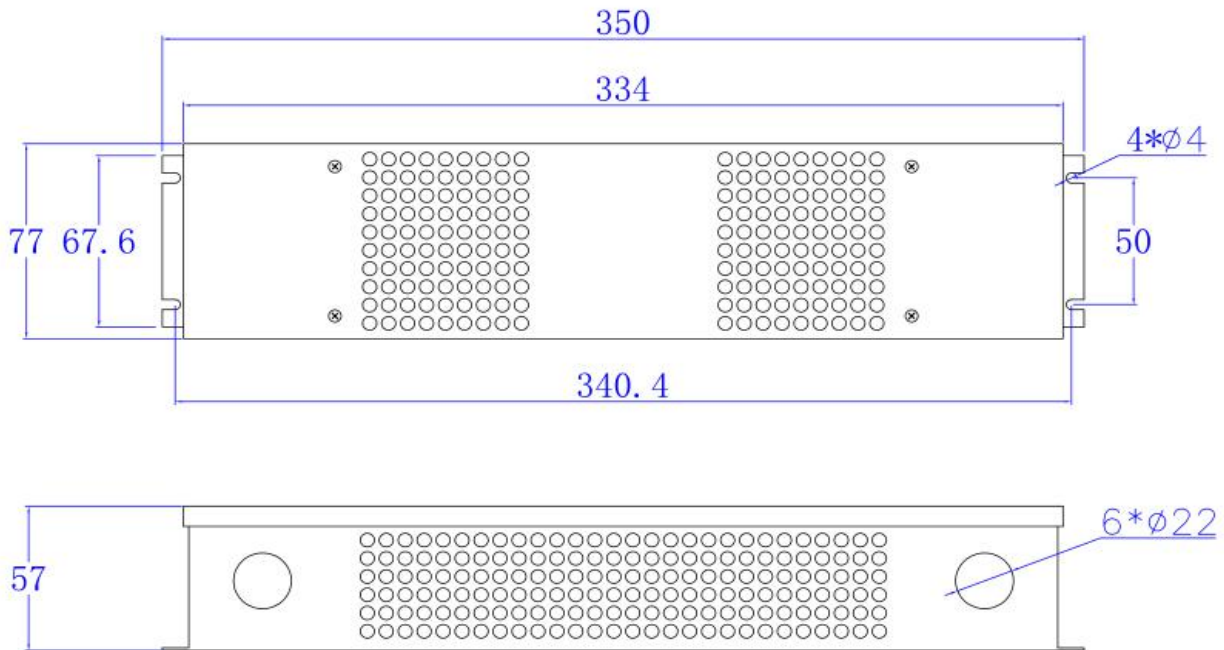
■ Label

<p>● L Black</p> <p>● N White</p> <p>Green</p> <p>Input</p>	<p>LED Driver (Phase Dimming) for Forward phase and Reverse phase, ELV, Triac Dimmers</p> <p>Constant Voltage Class 2 unit</p> <p>Model: KV-120W-TDL</p> <p>Input: 100-130V~0.7VA 50/60Hz λ: 0.95</p> <p>Output: 120V~0.67A</p> <p>Rainproof étanche à la pluie</p> <p>CONFORMS TO UL STD. 8750 CERTIFIED TO CSA STD. C22.2 No.250.13</p> <p>CONFORMS TO UL STD. 1310 CERTIFIED TO CSA STD. C22.2 No.223</p> <p>Building 3, No.19, Yongtian Road, Qianshan Industrial Zone, Zhuhai City, Guangdong Province, China</p>		<p>CAUTION ATTENTION</p> <p>WARNING: Risk of Electric Shock. Mount this unit at a height greater than 1 foot from the ground surface.</p> <p>AVERTISSEMENT: Risque de choc électrique. Monter l'unité à une hauteur supérieure à 30 cm de la surface du sol.</p> <p>WARNING: Risk of Electric Shock. Install only on a circuit protected by a Class A GFCI.</p> <p>AVERTISSEMENT: Risque de choc électrique. Installez uniquement sur un circuit protégé par un disjoncteur différentiel de classe A GFCI.</p> <p>SUITABLE FOR WET LOCATIONS</p> <p>CONVIENT AUX EMPLACEMENTS MOUILLÉS</p>	<p>+ Red ●</p> <p>Output</p> <p>- Black ●</p>
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■ Mechanical Specification for 80W Phase/Triac Dimmable Driver with junction box



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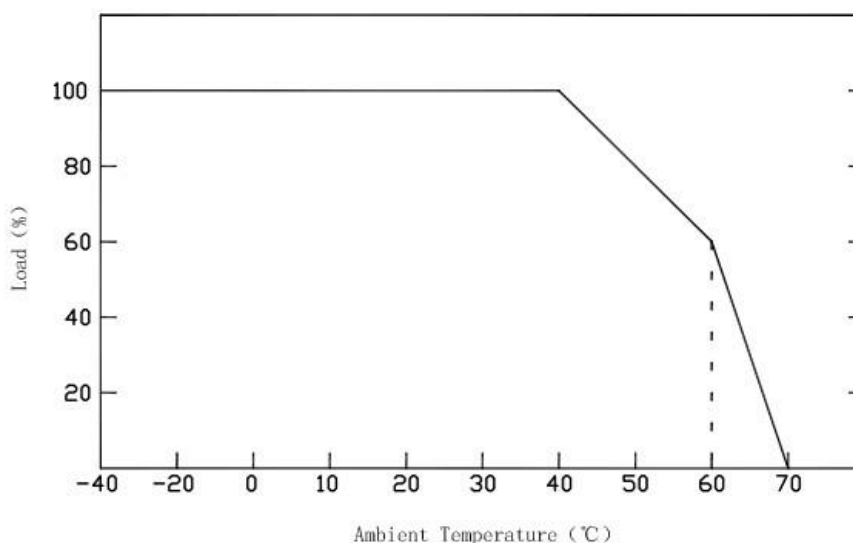
■ Dimming Operation

- ※ Output constant current level 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; Output polarity: RED "+"; BLACK "-"
- ※ Risk of Electric Shock. When used outdoors, install only on a circuit protected by a Class A GFCI;
- ※ 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.

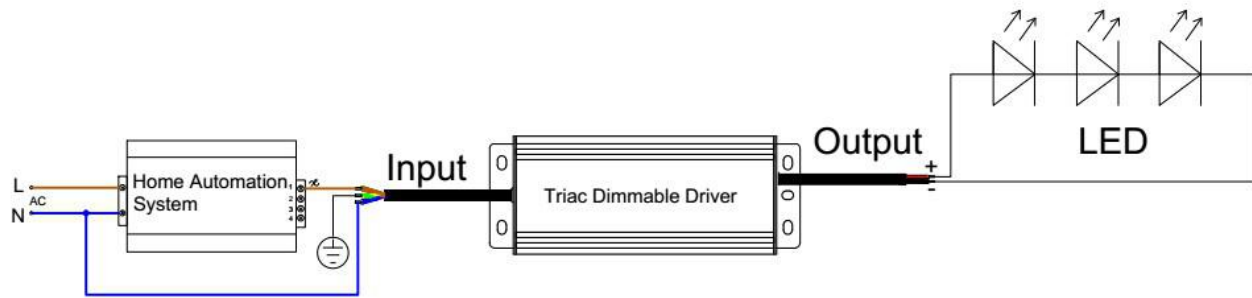
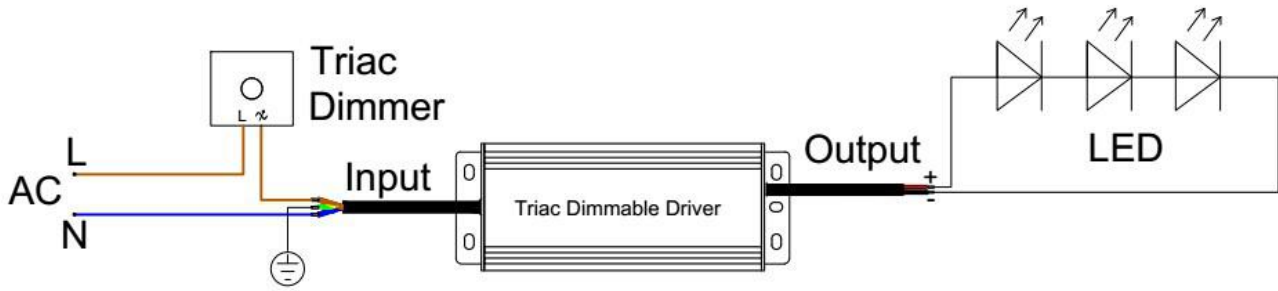
■ Derating Curve



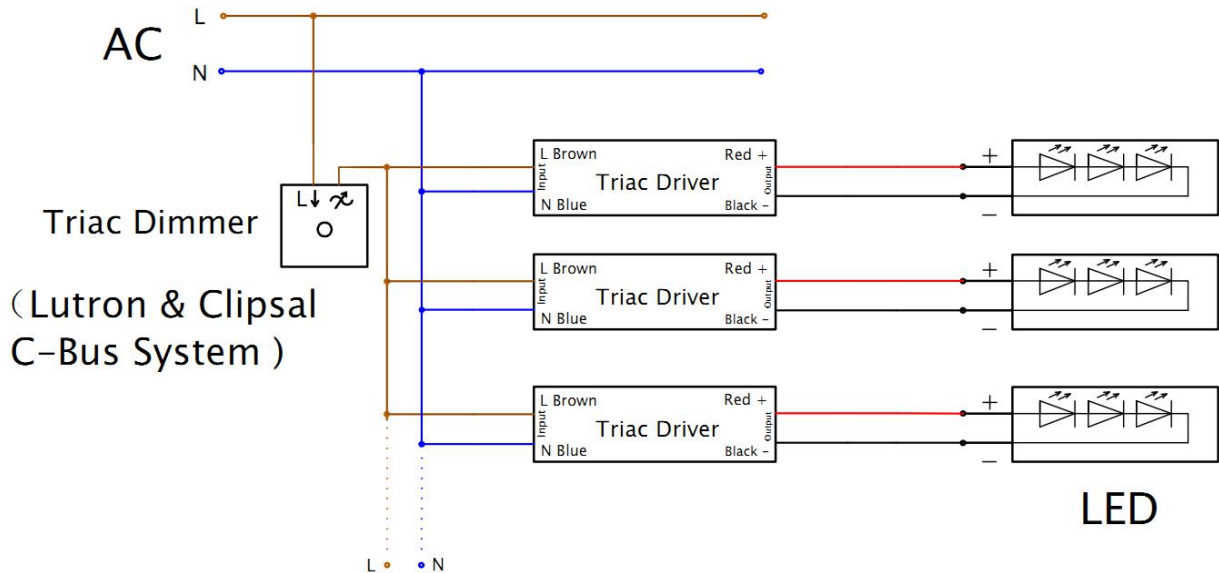
※To extend their life, please refer to the Derating Curve and derate according to the temperature.

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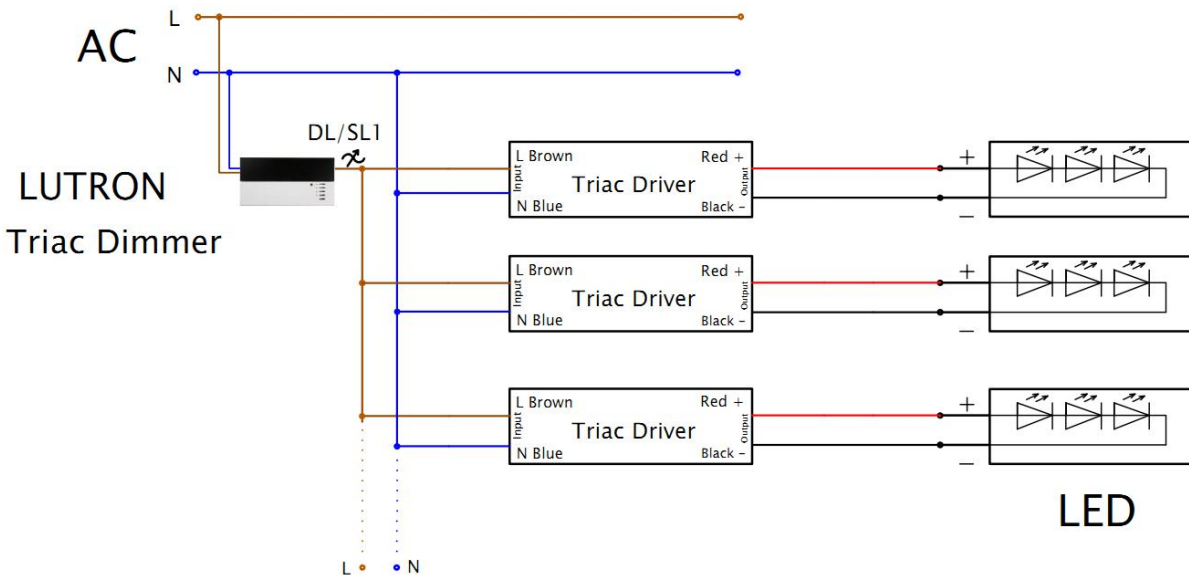
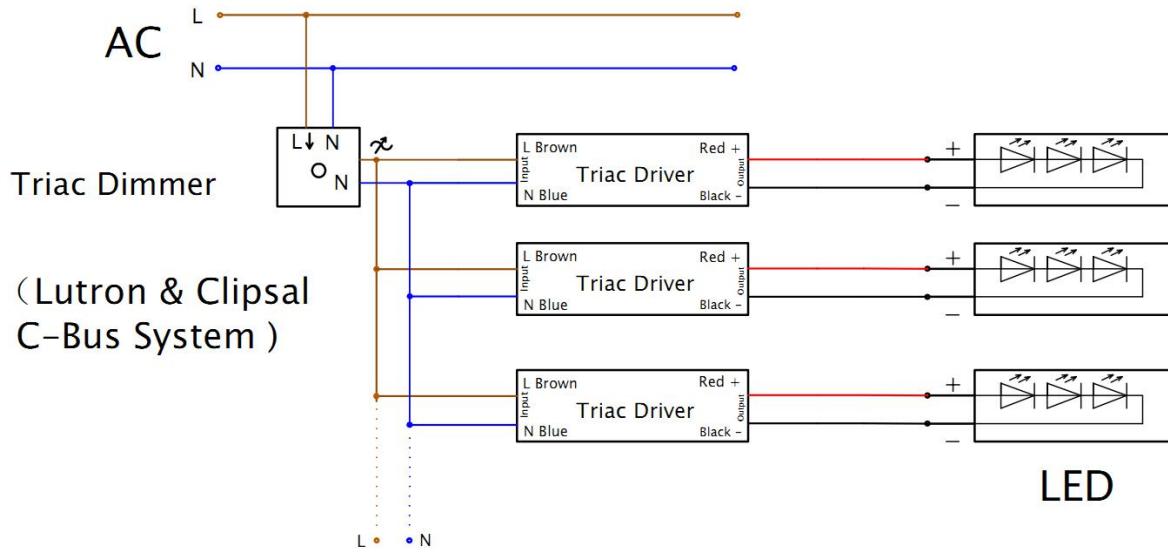
■ Single Driver Connecting Diagram



■ Multiple Drivers Connecting Diagram



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