

# Triac Dimmable LED Driver

Triac/Forward and Reverse phase (leading and trailing edge)/MLV/ ELV dimmer

## Features :

- Input Voltage: 100-277VAC & 200-240VAC
- Power Range:30-60W
- High Efficiency: up to 86% ; PF>0.95
- IP20 Design; Flicker-free
- PWM Output Design
- Loading: 5%-100% Dimming: 0-100%
- Cooling by free air convection
- Suitable for dry or damp location use
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
- Protection:short circuit/over loading/over current/ Over temperature
- 7 years warranty



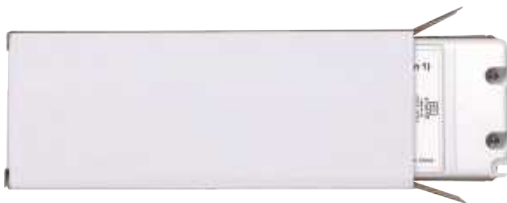
# SELV

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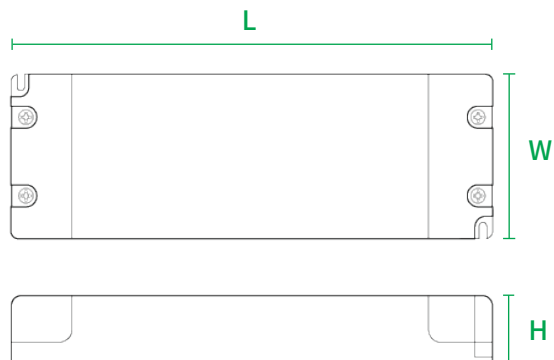
## ■ Specifications

Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition is removed
	Over Current	$\leq 1.2 \cdot I_{out}$
	Over Loading	$\leq 120\%$ shut down o/p voltage, re-power on to recover
	Over temperature	$100^{\circ}\text{C} \pm 10^{\circ}\text{C}$ shut down o/p voltage ,re-power on to recover
Environment	Working TEMP.	$-40 \sim +70^{\circ}\text{C}$
	Working Humidity	20~90%RH, non-condensing
	Storage TEMP. Humidity	$-40 \sim +80^{\circ}\text{C}$ , 10~95%RH
	TEMP .coefficient	$\pm 0.03\%/^{\circ}\text{C}$ ( $0 \sim 50^{\circ}\text{C}$ )
	Vibration	10~500Hz, 2G 10min./1 cycle,period for 72min. each along X,Y,Z axes
Safety& EMC	Safety standards	UL8750+UL1310 Class 2 unit , EN61347-1 EN61347-2-13
	Withstand voltage	I/P-O/P:3.75KVAC
	Isolation resistance	I/P-O/P: 100M $\Omega$ /500VDC/25 $^{\circ}\text{C}$ /70%RH
	EMC EMISSION	EN55015,EN61000-3-2,3 ( $\geq 60\%$ loading),FCC Part 15 B
Notes	<p>1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25<math>^{\circ}\text{C}</math> of ambient temperature.</p> <p>2. Tolerance: includes set us tolerance, line regulation and load regulation .</p> <p>3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualify EMC Directive on the complete installation again</p> <p>4. Loading range from 10% to 100%</p>	

## ■ Package



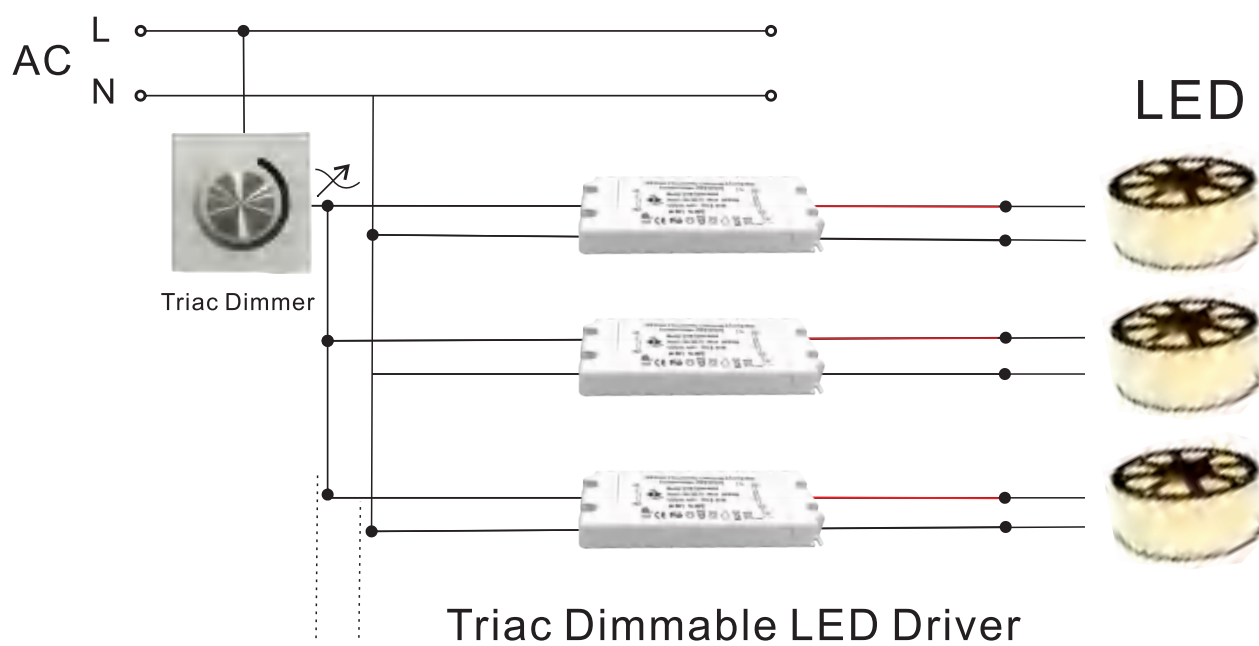
## ■ Dimensions



Model No.	Power	Size(L*W*H)
OTM-PD30	30W	155*54*20
OTM-PD60	60W	178*61*24

(unit:mm)

## ■ Driver Connecting Diagram



## Dimming Operation

- ※The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a triac dimmer.
- ※Usually matching with leading edge/Forward Phase Triac Dimmers( Can customized as a driver only matching trailing edge/reverse phase Triac Dimmers if needed).
- ※Please try to use dimmers with power at least 2.5 times as the output power of the driver.
- ※for Forward phase,Magnetic low voltage and 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;
- ※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.