LTECH

LED Intelligent Driver

- Support Triac leading edge, ELV trailing edge and push DIM dimming.
- Built-in single chip, dimming curve and smoothing time can be customized.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Over load / Over-heat / Short circuit protection, recover automatically.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
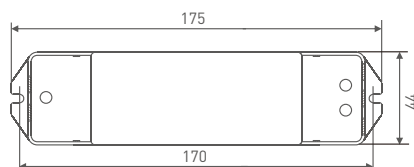- Suitable for internal lights application for Ⅰ/Ⅱ/Ⅲ.

SELV   □   110   F   M   M   ⊕   ⊙   CE   RoHS   ⌂   ☒

Dimmable:
Max: 0.1-100%

Triac Push DIM   PWM Digital Dimming   ◠>85% Efficiency   Over-heat Protection   Over Load Protection   Short Circuit Protection

Specification

Model		TD-36-12-E1P1		TD-36-24-E1P1
OUTPUT	Output Voltage	12Vdc		24Vdc
	Output Voltage Range	12Vdc ± 0.5Vdc		24Vdc ± 0.5Vdc
	Output Current	Max. 3A		Max. 1.5A
	Output Power	Max. 36W		
	Output Power Range	0~36W		
	Dimming Range:	0~100%, dimming depth: Max. 0.1%		
	Overload Power Limitation	≥102%		
	Ripple & Noise	≤120mV		
	PWM Frequency	300Hz		
INPUT	Dimming Interface	Triac/ELV, Push DIM		
	Input Voltage	200-240Vac		
	Frequency	50/60Hz		
	Input Current	230Vac≤0.4A		
	Efficiency(typ.)	85%		87%
	Inrush Current(typ.)	Cold start 40A at 230Vac		
	Anti Surge	L-N:1KV		
	Leakage Current	<0.5mA/277Vac		
ENVIRONMENT	Working Temperature	ta: -30 ~ 55°C tc: 70°C		
	Working Humidity	20 ~ 95%RH, non-condensing		
	Storage Temp., Humidity	-40 ~ 80°C, 10~95%RH		
	Temp. Coefficient	±0.03%/°C(0-50°C)		
	Vibration	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.		
PROTECTION	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, and the output current will be restored automatically when the temperature comes normal.		
	Over Load Protection	Power limit when rated power≥102%, auto recovers when the load is reduced.		
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed.		
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac		
	Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH		
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13		
OTHERS	Dimension	175×44×30mm(L×W×H)		
	Packing	178×48×33mm(L×W×H)		
	Weight(G.W.)	185g±10g		

✳ The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The instantaneous surge current will be several times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), then we can prepare the special programs.
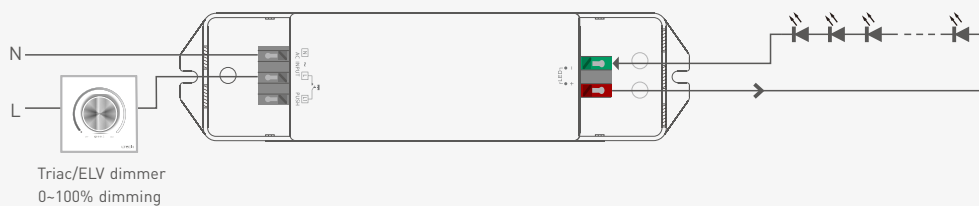
Dimensions

Unit：mm

175
44
170

30

Connections

Triac/ELV connection

N

L

Triac/ELV dimmer
0~100% dimming

Push Dim connection

N
L

Push Dim
0~100% dimming
Short press to on/off, long press to dim.

The dimming interface priority: First Triac/ELV, next Push Dim.

Push dimming

Reset Switch

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

＊No further notice if any changes in the manual.
Product function depends on the goods.
Please feel free to contact our official distributor if any question.

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