

LED Intelligent Driver

- Support Leading edge (Triac), Trailing edge (ELV) and Push Dimmer.
- With soft-on and fade in function, visual more comfortable.
- Dimming range from 0-100%, LED start at 0.1% possible.
- 0-100% flicker free, High Frequency Exemption
- Short circuit / Over-heat / Over load / Over voltage protection, recover automatically.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I/II/III.



Dimmable:

 Max. 0.1-100%

Flicker-free

Achieve high frequency exemption assessment level.

SELV



CE

RoHS



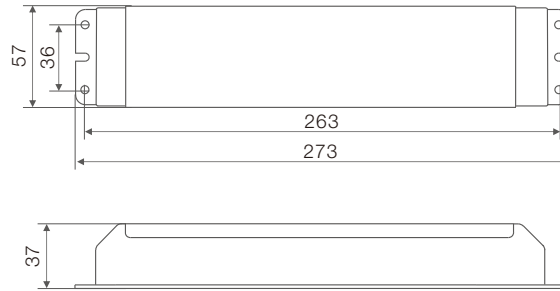
Specification

Model		TD-150-12-E1M1	TD-150-24-E1M1
OUTPUT	Output Voltage	12Vdc	24Vdc
	Output Voltage Range:	12Vdc \pm 0.5Vdc	24Vdc \pm 0.5Vdc
	Output Current	Max. 12.5A	Max. 6.25A
	Output Power	Max. 150W	
	Output Power Range	0~150W	
	Strobe Level	High frequency exemption assessment level.	
	Dimming Range:	0~100%, dimming depth: Max. 0.1%	
	Overload Power Limitation	\geq 102%	
	Ripple & Noise	\leq 200mV	
	PWM frequency	3600Hz	
INPUT	Dimming Interface	Triac/ELV, Push DIM	
	Input Voltage	200-240Vac	
	Frequency	50/60Hz	
	Input Current	230Vac \leq 1.4A	
	Efficiency(typ.)	85%	
	Inrush Current(typ.)	Cold start 50A at 230Vac	
	Anti Surge	L-N: 1kV L/N-G: 2kV	
Leakage Current	I/P-O/P: <0.5mA/230Vac, I/P-GND: <0.75mA/230Vac		
ENVIRONMENT	Working Temperature	ta: -20°C ~ 45°C tc: 90°C	
	Working Humidity	20 ~ 95%RH, non-condensing	
	Storage Temp., Humidity	-40°C ~ 80°C, 10~95%RH	
	Temp. Coefficient	\pm 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 \geq 110°C. auto recovers.	
	Over Load Protection	Power limit when rated power \geq 102%, auto recovers.	
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.	
	Over Voltage Protection	Shut down the output when non-load voltage \geq 13V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage \geq 26V, re-power on to recover after fault condition is removed.
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac I/P-GND: 1800Vac	
	Isolation Resistance	I/P-O/P: 100M Ω /500VDC/25°C/70%RH	
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13	
	Strobe Test Standard	IEEE 1789	
OTHERS	Dimension	273x57x37mm[LxWxH]	
	Packing	285x63x43mm[LxWxH]	
	Weight(G.W.)	710g \pm 10g	

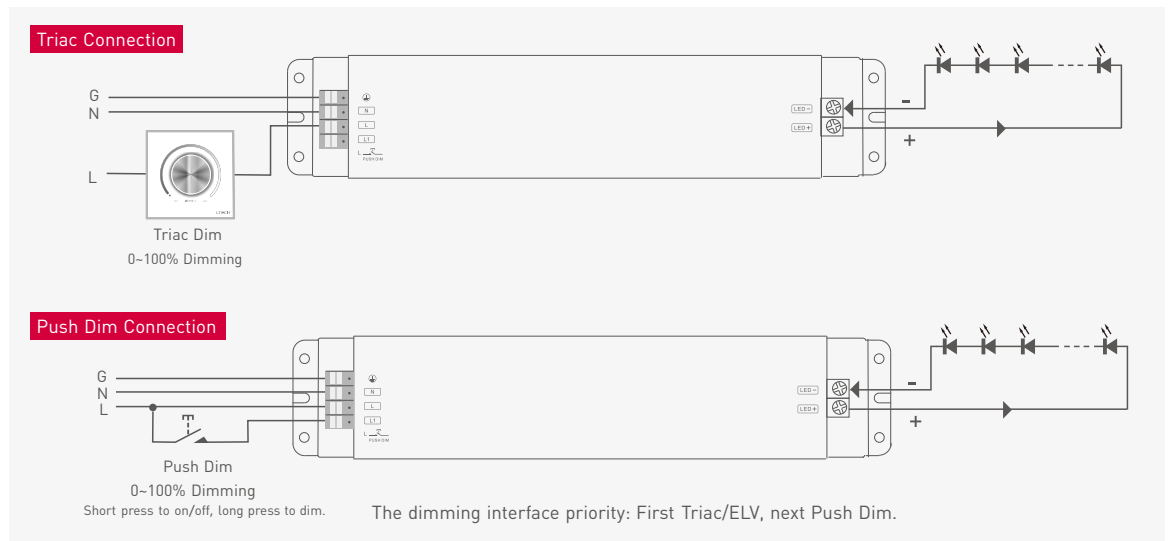
* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in-constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccup flickering). When you 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



Wiring diagram



Push Dimming



Reset Switch

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

Flicker Test Form

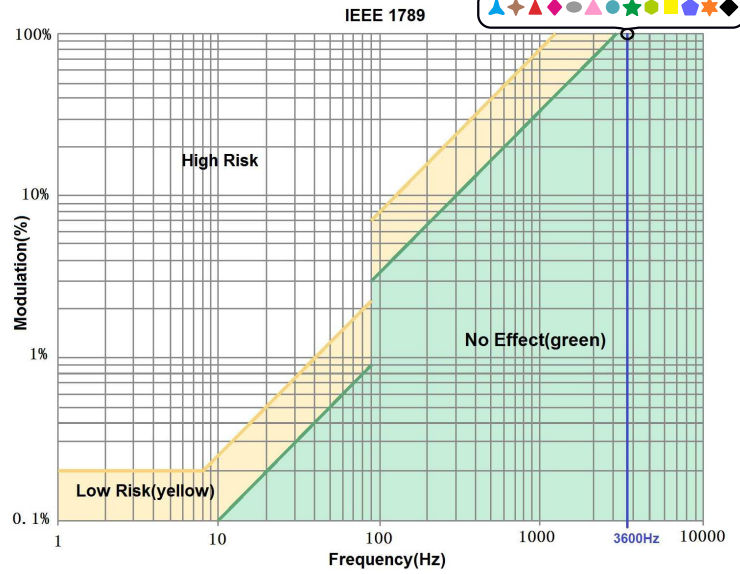
IEEE 1789

Limit of Modulation in low risk area	
Waveform frequency of Optical output	limit (%)
$f \leq 8\text{Hz}$	0.2
$8\text{Hz} < f \leq 90\text{Hz}$	$0.025 \times f$
$90\text{Hz} < f \leq 1250\text{Hz}$	$0.08 \times f$
$f > 1250\text{Hz}$	Exemption assessment
Limit of Modulation in no effect area	
Waveform frequency of Optical output	limit (%)
$f \leq 10\text{Hz}$	0.1
$10\text{Hz} < f \leq 90\text{Hz}$	$0.01 \times f$
$90\text{Hz} < f \leq 3125\text{Hz}$	$(0.08/2.5) \times f$
$f > 3125\text{Hz}$	Exemption assessment (High frequency exemption)

Brightness

- ▲ 0.1%
- ◆ 1%
- ▲ 5%
- ◆ 10%
- 20%
- ▲ 30%
- 40%
- ★ 50%
- 60%
- 70%
- ★ 80%
- ★ 90%
- ◆ 100%

Exemption assessment
(High frequency exemption)



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