

LED Intelligent Driver

- Support Triac leading edge, ELV trailing edge phase-cut dimming.
- T-PWM™ digital dimming, present a perfect visual experience.
- Built-in SCM, dimming curve and smoothing time can be customized.
- Dimming range: 0~100%, LED start dimming from 0.01%.
- Flicker-free (IEEE 1789), achieve the level of exemption assessment.
- Innovative thermal management technology, intelligent power life protection.
- Multi-current & wide voltage, suitable for different power LED.
- 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.



T-PWM™
Super depth dimming technology

Flicker-free
IEEE 1789

Dimmable:
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Max. 0.01-100%



BIS Certificate No. R-41129631



Specification

Model		TD-10-100-400-E1P1	TD-10-350-700-E1P1
OUTPUT	Output Voltage	10-45Vdc	3-24Vdc
	Max Output Voltage	48Vdc	28Vdc
	Output Current	100-400mA	350-700mA
	Output Power	Max. 10W	
	Strobe Level	Exemption assessment level.	
	Dimming Range:	0~100%, LED start at 0.01% possible.	
	LF current ripple(<120Hz)	<1.5%	
	Current Accuracy	±5%	
	Ripple & Noise	≤200mV	≤100mV
PWM Frequency	3600Hz		
INPUT	Dimming Interface	Triac leading edge / ELV trailing edge	
	Input Voltage Range	200-240Vac	
	Frequency	50/60Hz	
	Input Current	0.15A@230Vac	
	Efficiency	>82%	>79%
	Inrush Current(typ.)	Cold start 20A at 230Vac	
Control surge capability	L-N: 1kV		
Leakage Current	<0.5mA/230Vac		
ENVIRONMENT	Working Temperature	ta: -30°C ~ 55°C tc: 80°C	
	Working Humidity	20 ~ 95%RH, non-condensing	
	Storage Temp., Humidity	-40°C ~ 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 Load Protection	When O/P voltage exceed its range, O/P current declines, auto recovers.	
	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C. auto recovers.	
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.	
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	
	Strobe Test Standard	IEEE 1789	
OTHERS	Dimension	135×30×320mm(L×W×H)	
	Packing	140×34×23mm(L×W×H)	
	Weight(G.W.)	80g±10g	

LED Current Selection

The current can be easily configured by choosing the correct combination of the DIP switches

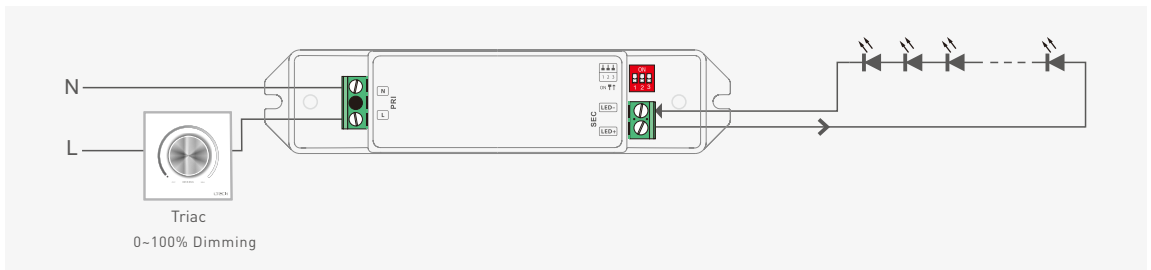
DIP switch		⬇ ⬇ ⬇	⬇ ⬇ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	ON OFF
TD-10-100-400-E1P1	Output Current		100mA	150mA	200mA	250mA	300mA	350mA	400mA	
	Output Voltage		10-45V	10-45V	10-45V	10-40V	10-33V	10-28V	10-25V	
	Output Power		1-4.5W	1.5-6.75W	2-9W	2.5-10W	3-9.9W	3.5-9.8W	4-10W	
TD-10-350-700-E1P1	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	
	Output Voltage	3-24V	3-24V	3-22V	3-20V	3-18V	3-16V	3-15V	3-14V	
	Output Power	1.05-8.4W	1.2-9.6W	1.35-9.9W	1.5-10W	1.65-9.9W	1.8-9.6W	1.95-9.75W	2.1-9.8W	

* After current setting by DIP switch, power off and then power on to make the new current effective.

* E.g. LED 3.2V/pcs:

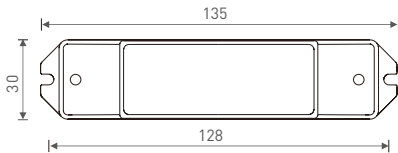
3-24V can power 1-7pcs LEDs in series, 3-14V can power 1-4pcs LEDs in series, the maximum quantity of LEDs in series will be subject to the actual voltage of LED.

Wiring Diagram



Dimensions

Unit : mm



* 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.