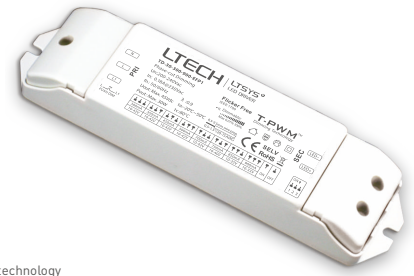


## LED Intelligent Driver

- Support Leading edge (Triac), Trailing edge (ELV) and Push Dimmer.
- Built-in SCM, dimming curve and smoothing time can be customized.
- T-PWM™ digital dimming, present a perfect visual experience.
- Dimming range: 0~100%, dimming depth: Max. 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:**  
.....  
Max. 0.01-100%

SELV



RoHS



Triac  
ELV

Push  
DIM

T-PWM™  
Super depth  
dimming  
technology

Flicker-free  
IEEE 1789

Multiple  
Current

Over-heat  
Protection

Over Load  
Protection

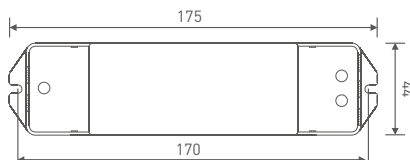
Short Circuit  
Protection

### Specification

Model	TD-15-150-700-EFP1	TD-20-200-700-EFP1	TD-25-200-900-EFP1	TD-30-300-900-EFP1	
OUTPUT	Output Voltage	10-42Vdc			
	Max Output Voltage	45Vdc			
	Output Current	150-700mA	200-700mA	200-900mA	300-900mA
	Output Power Range	1.5W-15W	2W-20W	2W-25W	3W-30W
	Fluctuation Level	Exemption assessment level.			
	Dimming Range:	0~100%, dimming depth: Max. 0.01%			
	LF current ripple(<120Hz)	<2%			
	Current Accuracy	±5%			
	Ripple & Noise	≤2V			
PWM Frequency	3600Hz				
INPUT	Dimming Interface	Triac/ELV, Push			
	Input Voltage Range	200-240Vac			
	Frequency	50/60Hz			
	Input Current	0.11A@230Vac	0.13A@230Vac	0.16A@230Vac	0.18A@230Vac
	Power Factor	PF>0.9/230Vac (full load)			
	Efficiency(typ.)	80%	82%	83%	85%
	Inrush Current(typ.)	Cold start 5A at 230Vac (twidh=76μs measured at 50% Ipeak)			
	Anti Surge	L-N: 1kV			
ENVIRONMENT	Leakage Current	<0.5mA/230Vac		<0.25mA/230Vac	
	Working Temperature	ta: -20°C ~ 50°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]			
PROTECTION	Vibration	10-500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.			
	Over Load Protection	Power limit when rated power ≥ 102%, auto recovers.			
	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥ 110°C, auto recovers.			
SAFETY & EMC	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.			
	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	Strobe Test Standard	IEEE 1789			
	Dimension	175×44×30mm(L×W×H)			
	Packing	178×48×33mm(L×W×H)			
OTHERS	Weight(G.W.)	140g±10g	145g±10g	150g±10g	

### Dimensions

Unit: mm



## LED Current Selection

DIP switch for 8 optional currents' quick selection

TD-15-150-700-EFP1	DIP switch									
	Output current	150mA	200mA	300mA	350mA	500mA	550mA	650mA	700mA	
	Output voltage	10-42V	10-42V	10-42V	10-42V	10-30V	10-27V	10-23V	10-21.5V	
	Output power	1.5-6.3W	2-8.4W	3-12.6W	3.5-14.7W	5-15W	5.5-14.85W	6.5-14.95W	7-15.05W	

TD-20-200-700-EFP1	DIP switch									
	Output current	200mA	250mA	300mA	350mA	550mA	600mA	650mA	700mA	
	Output voltage	10-42V	10-42V	10-42V	10-42V	10-36V	10-33V	10-31V	10-29V	
	Output power	2-8.4W	2.5-10.5W	3-12.6W	3.5-14.7W	5.5-19.8W	6-19.8W	6.5-20.15W	7-20.3W	

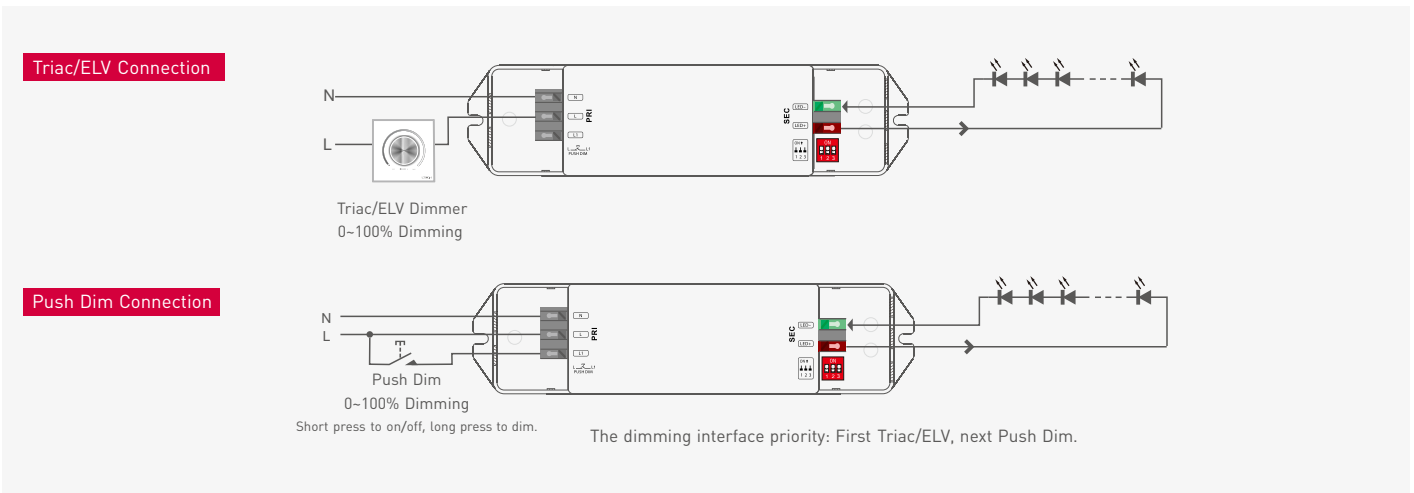
TD-25-200-900-EFP1	DIP switch									
	Output current	200mA	300mA	400mA	500mA	600mA	700mA	800mA	900mA	
	Output voltage	10-42V	10-42V	10-42V	10-42V	10-42V	10-36V	10-31V	10-28V	
	Output power	2W-8.4W	3W-12.6W	4W-16.8W	5W-21W	6W-25.2W	7W-25.2W	8W-24.8W	9W-25.2W	

TD-30-300-900-EFP1	DIP switch									
	Output current	300mA	350mA	450mA	500mA	700mA	750mA	850mA	900mA	
	Output voltage	10-42V	10-42V	10-42V	10-42V	10-42V	10-40V	10-35V	10-33V	
	Output power	3W-12.6W	3.5W-14.7W	4.5W-18.9W	5W-21W	7W-29.4W	7.5W-30W	8.5W-29.75W	9W-29.7W	

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

\* E.g. LED 3.2V/pcs: 10-42V can power 3-14pcs LEDs in series, 10-21.5V can power 3-7pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

## Connections



## 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.

\* 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.