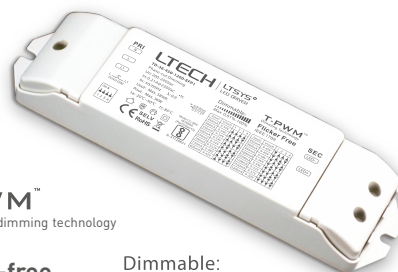


LED Intelligent Driver

- Support Leading edge (Triac), Trailing edge (ELV) and Push Dimmer.
- With soft-on and fade in function, visual more comfortable.
- T-PWM™ digital dimming, present a perfect visual experience.
- Dimming range: 0-100%, dimming depth: Max. 0.01%.
- 0-100% flicker free, High frequency exemption level.
- 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.
- Up to 30000-hour life time



T-PWM™
Super depth dimming technology

Flicker-free

IEEE 1789

Dimmable:



Max. 0.01-100%

Model:CC-35W
IS15885
(Part2/Sec13)



SELV



RoHS

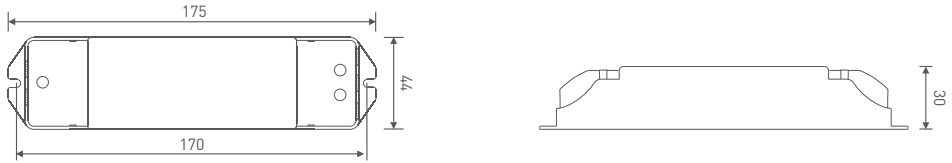


Specification

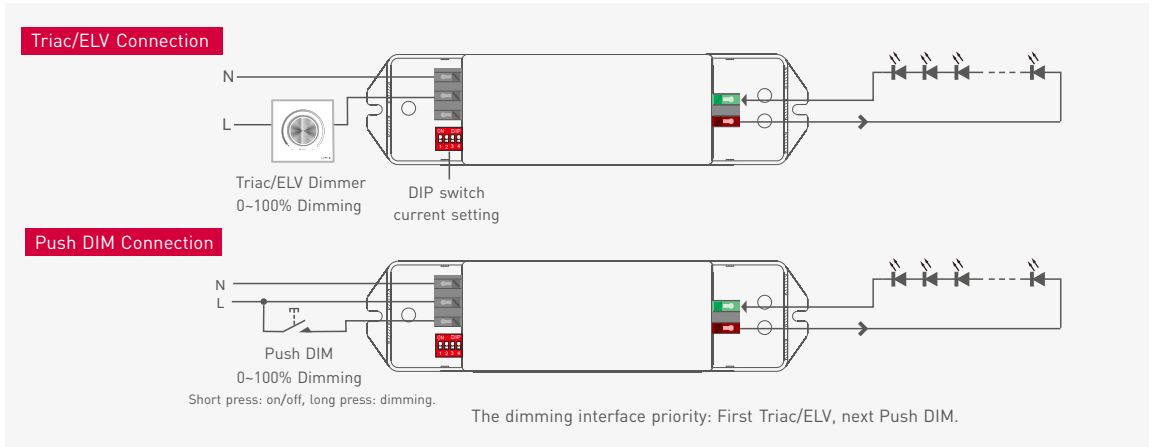
Model	TD-36-450-1200-EFP1	
OUTPUT	Output Voltage	9-54Vdc
	Max Output Voltage	58Vdc
	Output Current	450-1200mA
	Output Power Range	4.05W-36W
	Fluctuation Level	Exemption assessment level.
	Dimming Range:	0-100%, dimming depth: Max. 0.01%
	LF current ripple(<120Hz)	<1%
	Current Accuracy	±5%
	Ripple & Noise	≤2V
	PWM Frequency	≤3600Hz
INPUT	Dimming Interface	Triac/ELV, Push
	Input Voltage Range	200-240Vac
	Frequency	50/60Hz
	Input Current	0.21A@230Vac
	Power Factor	PF>0.9/230Vac (full load)
	Efficiency(typ.)	80%
	Inrush Current(typ.)	Cold start 10A at 230Vac (twidth=70µs measured at 50% Ipeak)
	Anti Surge	L-N: 1kV
Leakage Current	<0.5mA/230Vac	
ENVIRONMENT	Working Temperature	ta: -20 ~ 50°C tc: 80°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 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.
	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	175×44×30mm[L×W×H]
	Packing	178×48×33mm[L×W×H]
	Weight[G.W.]	165g±10g

Dimensions

Unit: mm



Connections



LED Current Selection

DIP switch for 16 optional currents' quick selection

DIP switch																	ON OFF	
Output current	450mA	500mA	550mA	600mA	650mA	700mA	750mA	800mA										
Output voltage	9-54V	9-54V	9-54V	9-54V	9-54V	9-51.5V	9-48V	9-45V										
Output power	4.05-24.3W	4.5-27W	4.95-29.7W	5.4-32.4W	5.85-35.1W	6.3-36.05W	6.75-36W	7.2-36W										

DIP switch																	ON OFF	
Output current	850mA	900mA	950mA	1000mA	1050mA	1100mA	1150mA	1200mA										
Output voltage	9-42V	9-40V	9-38V	9-36V	9-34V	9-33V	9-31V	9-30V										
Output power	7.65-35.7W	8.1-36W	8.55-36.1W	9-36W	9.45-35.7W	9.9-36.3W	10.35-35.65W	10.8-36W										

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

* E.g. LED 3.2V/pcs: 9-54V can power 3-18pcs LEDs in series, 9-21V can power 3-7pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

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: The lights will return to its previous brightness value when short press on PUSH DIM button.
- Power on again after power cut, the output brightness is subjected to the input voltage of drivers.

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)

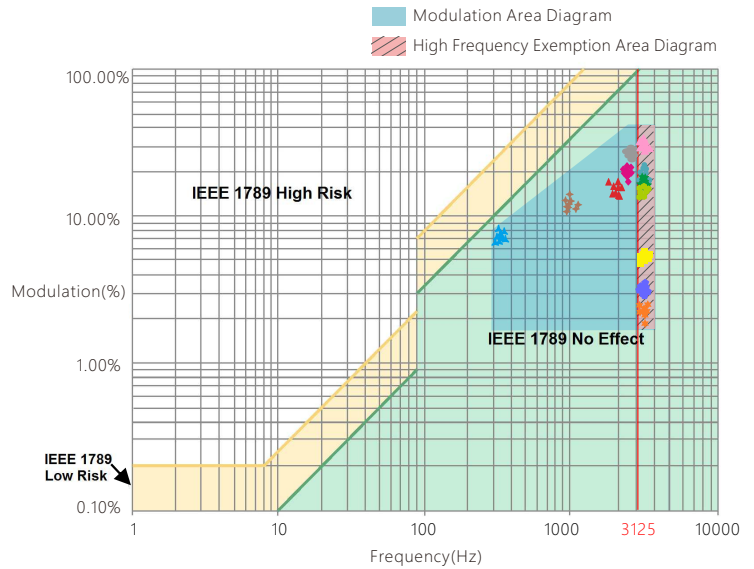
Brightness

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

Marks in the right chart were tested results of different current ranges.

The output frequency is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

In excess of 30% brightness, dimming frequency is more than 3125Hz and it achieves high frequency exemption level.



* 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.