



General

Product Type	Constant Current Driver
Length (mm)	175
Width (mm)	44
Height (mm)	30
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	175

Electronics

Input Domain	AC
Input Voltage	200 ~ 240V AC
Output Voltage	9 ~ 54V DC
Output Current (mA) max/output	450~1200
Output Power Range (W)	4.05~36
Power Factor at Full Load	+0.90 @ 230VAC
Power Supply	Internal
LED Outputs	1
Anti Surge	L-N: 1kV
Efficiency	80%
Leakage current max. (mA)	0.5
Standby Power Loss Max. (W)	0.5
Input Frequency	50 ~ 60Hz
Inrush Current	10A @ 230VAC

Lighting

Color Range	Single Color
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Control

Output Signal	PWM-CC
Control	TRIAC
Dimming Range	0~100%
Number of Channels	1

Protection

Protection Class	II
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Environmental

Operating Temperature	-20 ~ +50 °C
Ingress Protection	IP20

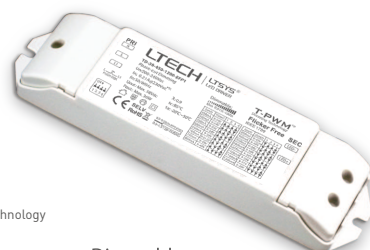
CE IP20

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.

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:
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Max. 0.01-100%

SELV



RoHS

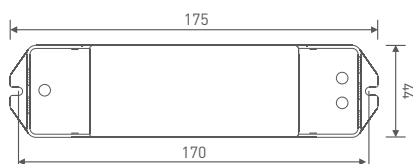


Specification

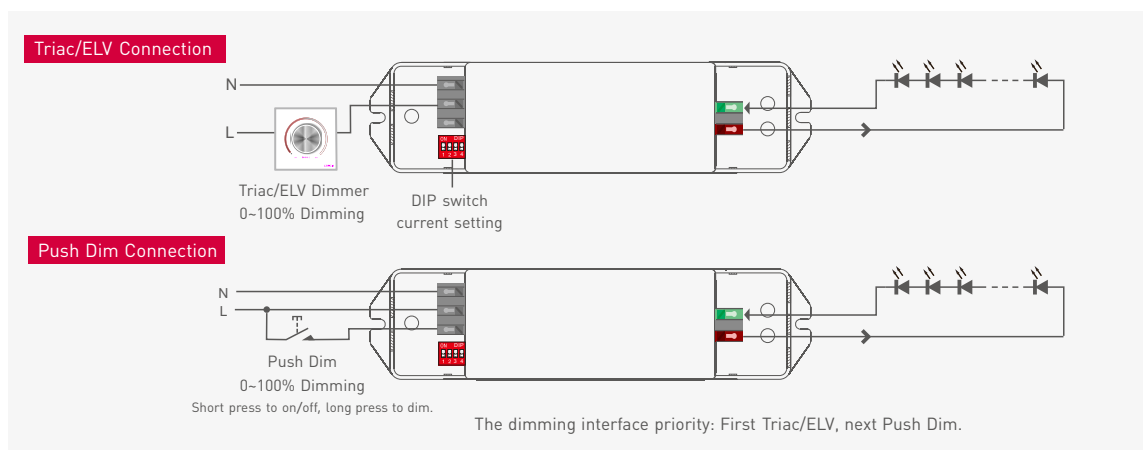
Model		TD-36-450-1200-EFP1
OUTPUT	Output Voltage	9-54Vdc
	Max Output Voltage	58Vdc
	Output Current	450-1200mA
	Output Power Range	4.05W~36W
	Fluctuation Level	Exemption assessment level.
	Dimming Range:	0~100%, dimming depth: Max. 0.01%
	LF current ripple(<120Hz)	<2%
	Current Accuracy	±5%
	Ripple & Noise	≤2V
	PWM Frequency	≤3600Hz
INPUT	Dimming Interface	Triac/ELV, Push
	Input Voltage Range	200-240Vac
	Frequency	50/60Hz
	Input Current	0.21A@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																					
Output current	450mA	500mA	550mA	600mA	650mA	700mA	750mA	800mA													ON OFF
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																					
Output current	850mA	900mA	950mA	1000mA	1050mA	1100mA	1150mA	1200mA													ON OFF
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.

* 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.