



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)	160

Electronics

Input Domain	AC
Input Voltage	220 ~ 240V AC
Output Voltage	10 ~ 54V DC
Output Current (mA) max/output	150~900
Output Power Range (W)	1.5~25
Power Supply	Internal
LED Outputs	1
Input Frequency	50 ~ 60Hz
Inrush Current	2.28A @230VAC

Lighting

Color Range	Single Color
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Control

Output Signal	PWM-CC
Control	0-10V
Dimming Range	0~100%
Number of Channels	1

Protection

Protection Class	II
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Environmental

Storage Temperature	-40 ~ +80 °C
Operating Temperature	-20 ~ +50 °C
Ingress Protection	IP20

CE IP20

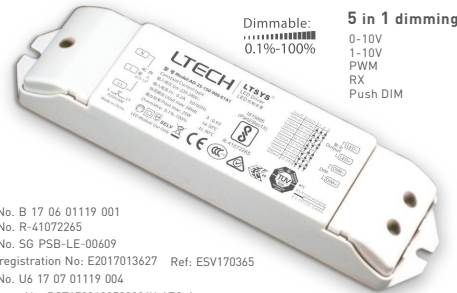
Disclaimer

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LED Intelligent Driver

1.5~25W 150~900mA 10~54Vdc

- Dimming interface: 0-10V (1-10V/PWM/RX), Push Dim.
- Built-in high performance MCU, dimming curve can be customized.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Non-load output voltage 0V to prevent damages to LED caused by poor contact.
- Multi-current & wide voltage, suitable for different power LED.
- Short circuit / Over-heat / Over load / Non-load protection.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I/II/III.

Dimmable:
0.1%-100%

5 in 1 dimming

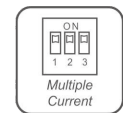
0-10V
1-10V
PWM
RX
Push DIM

TUV Certificate No. B 17 06 01119 001
 BIS Certificate No. R-41072265
 CB Certificate No. 5G PSB-LE-00609
 RCM Equipment registration No: E2017013627 Ref: ESV170365
 ENEC Certificate No. U6 17 07 01119 004
 CE EMC Certificate No. BST1702498520001Y-1EC-1
 LVD Certificate No. BST1709992470001Y-1SC-2
 CCC Certificate No. 2017011002993756



SELV CE

IS15885
(Part2/Sec13)
R-41072265



Main Characteristics

Dimming Interface:	0-10V (1-10V/PWM/RX), Push Dim							
Input Voltage Range:	220-240Vac ±10%							
Frequency:	50/60Hz							
Input Current:	230Vac ≤ 0.15A							
Power Factor:	PF > 0.93/230Vac, at full load							
THD:	≤ 20% at 230Vac, at full load							
Efficiency:	> 84%							
Inrush Current(typ.):	Cold start 2.28A at 230Vac (twidth=36μs measured at 50% Ipeak)							
Control Surge Capability: L-N:	1kV							
Leakage Current:	< 0.5mA/230Vac							
Operating Voltage:	10-54Vdc							
Output Power Range:	1.5W-25W							
Output Current :	150mA	250mA	300mA	350mA	500mA	600mA	700mA	900mA
Output Voltage :	10-54V	10-54V	10-54V	10-54V	10-50V	10-42V	10-36V	10-28V
Output Power :	1.5W-8.1W	2.5W-13.5W	3W-16.2W	3.5W-18.9W	5W-25W	6W-25.2W	7W-25.2W	9W-25.2W

Current Accuracy:	±3%
Max Output Voltage:	58Vdc
Non-load Output Voltage:	0Vdc
PWM Frequency:	≤ 4KHz
Dimming Range:	0~100%, LED start at 0.1% possible.
Working Temperature:	tc: 90°C ta: 50°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-heat Protection:	Shut down the output when PCB temp. ≥ 110°C, auto recovers when temp. back to normal.
Over Load Protection:	Shut down the output when rated power ≥ 102% ~ 125%, auto recovers when the load is reduced.
Short Circuit Protection:	Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed.
Non-load Protection:	Shut down the output if no load, auto recovers when load back to normal.

Safety & EMC

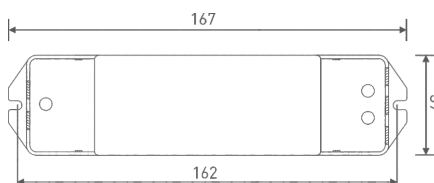
Withstand Voltage:	I/P-O/P: 3750Vac
Isolation Resistance:	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
Safety Standards:	IEC/EN61347-1, IEC/EN61347-2-13
EMC Emission:	EN55015, EN61000-3-2 Class C, IEC61000-3-3
EMC Immunity:	EN61000-4-2, 3, 4, 5, 6, 8, 11 EN61547

Others

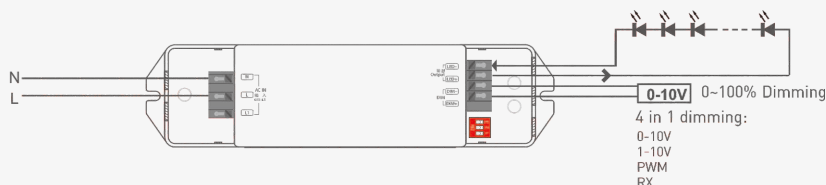
Dimension:	167×39×30mm(L×W×H)
Packing:	168×41×32mm(L×W×H)
Weight(G.W.):	160g±10g

Dimensions

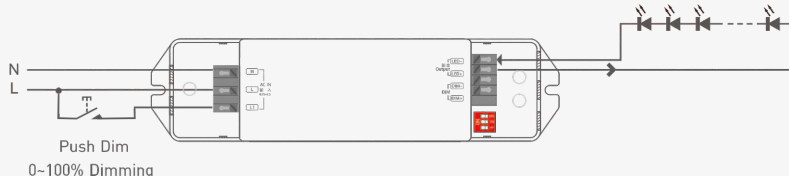
Unit: mm



0-10V Connection



Push Dim Connection



Short press to on/off, long press to dim.

The dimming interface priority: First 0-10V, next Push Dim.

Push Dimming

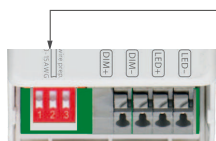


Reset Switch

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

LED Current Selection

Quick options: DIP switch for 8 optional currents' quick selection(see the table below).

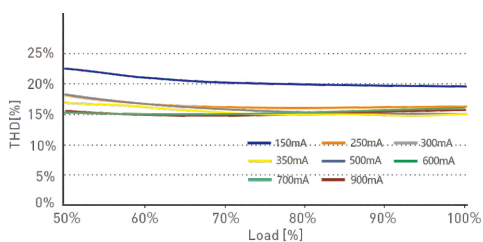


150mA	250mA	300mA	350mA	500mA	600mA	700mA	900mA	ON	OFF		
10-54V	10-54V	10-54V	10-54V	10-50V	10-42V	10-36V	10-28V				

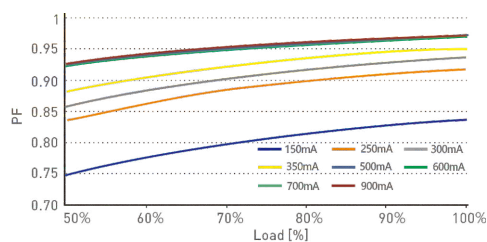
* After current setting by DIP switch, power off and then power on to make the new current effective.

* E.g. LED 3.2V/pcs: 10-54V can power 3-16pcs LEDs in series, 10-28V can power 3-8pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

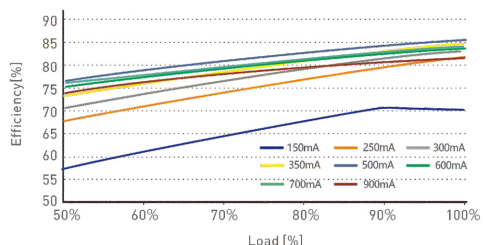
Relationship Diagrams



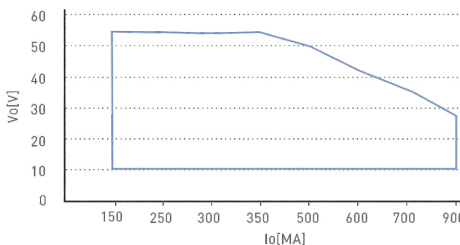
THD vs Load



Power Factor Characteristic



Efficiency vs Load



Current vs voltage