

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)	200

Electronics

Input Domain	AC
Input Voltage	220 ~ 240V AC
Output Voltage	10 ~ 54V DC
Output Current (mA) max/output	100~700
Output Power Range (W)	1~15
Power Factor at Full Load	+0.90 @ 230VAC
Power Supply	Internal
LED Outputs	1
Input Frequency	50 ~ 60Hz
Inrush Current	2.48 A @230VAC

Lighting

Color Range	Single Color
Color harige	Single Color

Control

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

Protection

Protection Class	TT	

Environmental

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

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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.



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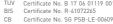
1-10V

PWM Push DIM

5 in 1 dimming

LED Intelligent Driver

- 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 OV 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



BCM. Equipment registration No: E2017013627 Ref: ESV17036 ENEC Certificate No. U6 17 07 01119 004

CE EMC Certificate No. BST1702498520001Y-1EC-1 LVD Certificate No. BST1709992470001Y-1SC-2





























1~15W 100~700mA 10~54Vdc

Dimmable

0.1%-100%



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>0.9/230Vac, at full load THD: ≤20% at 230Vac, at full load

Efficiency:

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: 1W~15W Current Accuracy: +3%

Max Output Voltage: 58Vdc Non-load Output Voltage: 0Vdc

≤4KHz Dimming Range: 0~100%, LED start at 0.1% possible.

Working Temperature: tc: 90°C ta: -30°C ~ 55°C

20 ~ 95%RH, non-condensing Working Humidity:

Storage Temp., Humidity: -40 ~ 80°C, 10~95%RH Temp. Coefficient: ±0.03%/°C[0-50°C]

Vibration: 10~500Hz, 2G 12min./1cvcle, period

for 72min. each along X, Y, Z axes

Output Current: 700mΔ 100m A 180m A $300m\Delta$ 350m A 450m∆ $500m\Delta$ 600mA Output Voltage: 10-22V 10-54V 10-5/V 10-50V 10-/31/ 10-34V 10-30V 10-251 Output Power: 1W-5.4W 1.8W-9.72W 3W-15W 3.5W-15.05W 4.5W-15.3W 5W-15W 6W-15W 7W-15.4W

Protection

Over Load Protection:

Non-load Protection:

Over-heat Protection: Shut down the output when PCB temp. ≥ 110°C,

auto recovers when temp. back to normal.

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.

Shut down the output if no load, auto recovers

when load back to normal.

Safety & EMC

PWM Frequency:

Withstand Voltage: I/P-0/P: 3750Vac

Isolation Resistance: I/P-O/P: 100M Ω/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

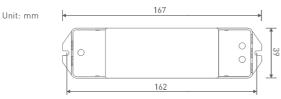
EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

Others

Dimension: 167×39×30mm(L×W×H) 168×41×32mm(L×W×H) Packing:

Weight(G.W.): 160g±10g

Dimensions

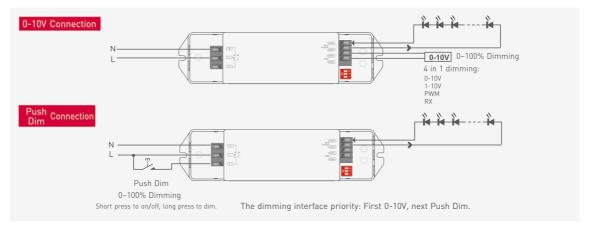




Connections







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.
- 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).

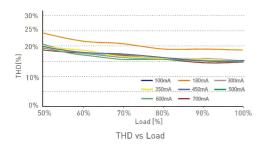


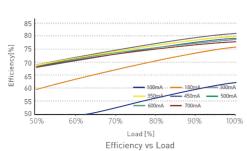
TTT	117	TIT	1 T T	711	TIT	TTL	TTT	Ŧ	Ŧ
100mA	180mA	300mA	350mA	450mA	500mA	600mA	700mA	ON	OFF
10-54V	10-54V	10-50V	10-43V	10-34V	10-30V	10-25V	10-22V	- OIN	

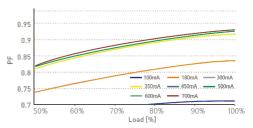
 $f{st}$ After current setting by DIP switch, power off and then power on to make the new current effective.

🗱 E.g. LED 3.2V/pcs: 10-54V can power 3-16pcs LEDs in series, 10-22V can power 3-6pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Relationship Diagrams







Power Factor Characteristic