

## General

Product Type	Constant Current Driver
Length (mm)	167
Width (mm)	39
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	10 ~ 54V DC
Output Current (mA) max/output	200~1200
Output Power Range (W)	2~36
Power Supply	Internal
LED Outputs	1
Input Frequency	50Hz, 60Hz
Inrush Current	25A @ 230VAC

## Lighting

0.1. 0	0: 1 0 1
Color Range	Single Color

## Control

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

## **Protection**

Protection	Class	II

### Environmental

Operating Temperature	-30 ~ +55 °C
Ingress Protection	IP20

 $\epsilon$ 



IP20 2 year

## 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.



oneeighty one.com





## 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.
- Multiple current, wide voltage, compatible with a variety of LED lights.
- Non-load output voltage OV to prevent damages to LED caused by poor contact.
- 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 indoor environments.













1-10V

PWM

Push DIM





Dimmable: 0.1%-100%

TOTAL STREET STR





0-10V PUSH DIM











5 in 1 dimming



2~36W 200~1200mA 10~54Vdc



#### Main Characteristics

Dimming Interface: 0-10V (1-10V/PWM/RX), Push Dim

Input Voltage Range: 200-240Vac ±10%

Frequency: 50/60Hz

 Input Current:
 0.25A@180Vac, 0.20A@230Vac

 Power Factor:
 PF>0.95/230Vac, at full load

 THD:
 ≤15% at 230Vac, at full load

Efficiency: >87%

Inrush Current(typ.): Cold start 25A at 230Vac

Control Surge Capability: L-N: 1kV
Leakage Current: <0.5mA/230Vac

Operating Voltage: 10-54Vdc

 Output Power Range:
 2W~36W

 Current Accuracy:
 ±3%

 Max Output Voltage:
 Max. 58Vdc

 Non-load Output Voltage:
 OVdc

Non-load Output Voltage: 0Vdc Dimming Range: 0~100%, LED start at 0.1% possible.

PWM Frequency: ≤4KHz

Working Temperature: tc:  $80^{\circ}$ C ta:  $-30^{\circ}$ C  $\sim 55^{\circ}$ C Working Humidity:  $20 \sim 95^{\circ}$ RH, non-condensing Storage Temp., Humidity:  $-40 \sim 80^{\circ}$ C,  $10-95^{\circ}$ RH Temp. Coefficient:  $\pm 0.03\%/^{\circ}$ C( $0-50^{\circ}$ C)

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

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

Output Current: 200mA 350mA 500mA 600mA 700mA 900mA 1050mA 1200mA Output Voltage: 10-54V 10-54V 10-54V 10-52V 10-35V 10-30V Output Power: 2W-10.8W 3.5W-18.9W 5W-27W 6W-32.4W 7W-36.4W 9-36W 10.5-36.75W 12-36W

### Protection

Over-heat Protection: Shut down the output when PCB temp. $\geqslant$ 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-0/P: 3750Vac

Isolation Resistance: I/P-0/P:  $100M\Omega/500VDC/25^{\circ}C/70\%RH$ 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

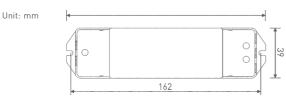
#### Others 4 8 1

 Dimension:
 167×39×30mm(L×W×H)

 Packing:
 168×41×32mm(L×W×H)

Weight(G.W.): 165g±10g

#### **Dimensions**

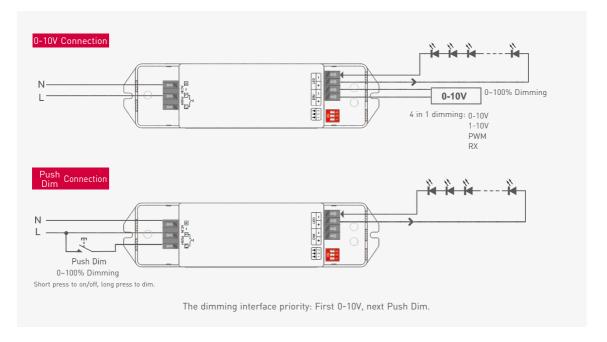




# Connections







### **Push Dimming**

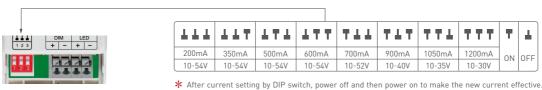


Reset Switch

- 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).



🛊 E.g. LED 3.2V/pcs: 10-54V can power 3-16pcs LEDs in series, 10-30V can power 3-9pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

2

www.ltech-led.com