

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	220 ~ 240V AC
Output Voltage	10 ~ 54V DC
Output Current (mA) max/output	200~1200
Output Power Range (W)	2~36
Power Factor at Full Load	+0.95 @ 230VAC
Power Supply	Internal
LED Outputs	1
Input Frequency	50 ~ 60Hz
Inrush Current	6.31A @ 230VAC

Lighting

Color Range	Single Color
Color hange	Single Color

Control

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

Protection

Protection Class	TT	

Environmental

Storage Temperature	-40 ~ +80 °C
Operating Temperature	-30 ~ +50 °C
Ingress Protection	IP20

(€ 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.



oneeighty one.com

DALI-36-200-1200-F1A1





LED Intelligent Driver

- · Dimming interface: DALI, Push DIM
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Support lamp current state and fault feedback function.
- DALI dimming curve can be either linear or logarithmic.
- 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.
- DALI bus standard: IEC62386-101, 102, 207.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I/II/III.







BIS

СВ

ENEC



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

Certificate No. R-41072265

Certificate No. SG PSB-LE-00609

Certificate No. U6 17 07 01119 004

Current Accuracy:

Max Output Voltage:

PWM Frequency:

Dimming Range:

Working Humidity:

Temp. Coefficient:

Vibration:

Non-load Output Voltage:

Working Temperature:

Storage Temp., Humidity:



±3%

58Vdc

NVdc

≤4KHz

nent registration No: E2017013627 Ref: ESV170365



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



Dimmable:

0.1%-100%

DALI Push DIM













0~100%, LED start at 0.1% possible.

10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes

ta: -30°C ~ 50°C tc: 90°C

-40 ~ 80°C, 10~95%RH

±0.03%/°C[0-50°C]

20 ~ 95%RH, non-condensing



Main Characteristics

Dimming Interface: DALI (IEC62386), Push Dim Input Voltage Range: 220-240Vac ±10%

Frequency: 50/60Hz

Input Current: <0.3A

PF>0.95/230Vac, at full load Power Factor: THD: ≤20% at 230Vac, at full load

Efficiency:

Inrush Current(typ.): Cold start 6.31A at 230Vac (twidth=58.4µs measured at 50% Ipeak)

Control Surge Capability: L-N: 1kV

<0.5mA/230Vac Leakage Current:

Operating Voltage: 10-54Vdc

Output Power Range: 2W~36W Output Current: 200mA

900mA 1050m A 1200mA 350m A 500mA 400m A 700m A 10-54V 10-54V 10-54V 10-54V 10-52V 10-40V 10-35V 10-30V Output Voltage: Output Power: 2W-10.8W 3.5W-18.9W 5W-27W 6W-32.4W 7W-36.4W 9W-36W 10.5W-36.75W 12W-36W

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%

Over Load Protection: ~125%, auto recovers when the load is reduced.

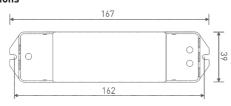
Short Circuit Protection: Shut down automatically if short circuit occurs,

auto recovers after faulty condition is removed.

Non-load Protection: Shut down the output if no load, auto recovers

when load back to normal.

Dimensions



Safety & EMC

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

Isolation Resistance: Safety Standards: IEC/EN61347-1, IEC/EN61347-2-13

FMC Emission-EN55015, EN61000-3-2 Class C, IEC61000-3-3

I/P-0/P: 100M.Q./500VDC/25°C/70%RH

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

Others

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

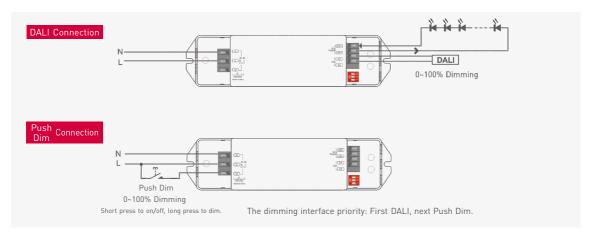
Weight(G.W.): 160q±10q



Connections







Push Dimming

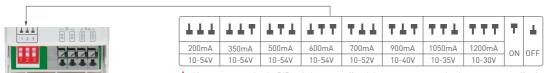


Reset Switch

- 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

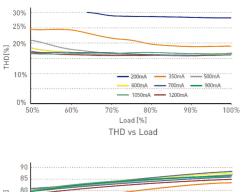
Quick options: DIP switch for 8 optional currents' quick selection(see the table below).

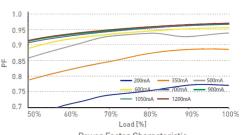


* After current setting by DIP switch, power off and then power on to make the new current effective.

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

Relationship Diagrams





Power Factor Characteristic

