



General

Product Type	Constant Current Driver
Length (mm)	167
Width (mm)	41
Height (mm)	32
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	160

Electronics

Input Domain	AC
Input Voltage	100 ~ 240V AC
Input Current max (A)	0.13A @ 230V AC
Output Voltage	9 ~ 54V DC
Output Current (mA) max/output	250~1000
Output Power Range (W)	2.25~20
Power Factor at Full Load	+0.90 @ 230VAC
Power Supply	Internal
Anti Surge	L-N: 2kV
Efficiency	83%
Leakage current max. (mA)	0.24
Standby Power Loss Max. (W)	0.5
THD (at full load)	9% @ 230V AC
Input Frequency	50 ~ 60Hz
Inrush Current	10A @ 230VAC

Lighting

Color Range	Tunable White
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Control

Output Signal	PWM-CC, DALI DT8
Control	DALI
Dimming Range	0~100%

Protection

Protection Class	II
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Environmental

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



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.



SE-20-250-1000-W2D2

LED Intelligent CT Driver

LTECH

**DALI DT8
Push DIM**

2.25~20W 250~1000mA 9~54Vdc

- Dimming interface: DALI DT8, Push DIM
- T-PWM™ digital dimming.
- Dimming range: 0~100%, LED start at 0.01% possible.
- DALI DT8 CT adjustment driver.
- 0-100% flicker-free (IEEE 1789 standard).
- Innovative thermal management technology, intelligent power life protection.
- Over temp. / Over voltage / Over load / Short circuit protection, recover automatically.
- In line with the EU energy efficiency ERP directive, standby power consumption < 0.5W.
- DALI bus standard: IEC62386-101,102, 209.
- Suitable for internal lights application for I / II / III.
- 5 years warranty (Rubycon capacitor).

T-PWM™
Super depth dimming technology

Flicker-free
IEEE 1789

Dimmable:
0.01~100%



5 years warranty



SELV



RoHS



Class 2

Main characteristics

Dimming interface: DALI, Push DIM
Input voltage: 100-240Vac (120-300Vdc)
Frequency: 50/60Hz
Input current: 115Vac≤0.25A, 230Vac≤0.13A
Output current: 250-1000mA
Output power: Max. 20W
Power factor: PF>0.95/115Vac, PF>0.90/230Vac, at full load
THD 230Vac@THD≤9%, at full load
Efficiency: 83%
Standby power loss: <0.5W
Inrush current[typ.]: Cold start 10A at 230Vac (twidth=40μs measured at 50% Ipeak)
Anti surge: L-N: 2kV
Leakage current: <0.24mA/230Vac

Output voltage: 9-54Vdc
Max output voltage: 59Vdc
Strobe level: Almost flicker-free / High frequency exemption assessment level.
Dimming range: 0~100%, 0.01% dimming depth.
LF current ripple<120Hz: <2%
Current accuracy: ±5%
Ripple & Noise: ≤2V
PWM dimming frequency: ≤3600Hz
Working temperature: ta: -20 ~ 50°C tc: 75°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.

LED Current Selection

DIP switch for 8 optional currents' quick selection[see the table below].

* Please choose the current value when the driver is power off.

Choose current via DIP switch



SE-20-250-1000-W2D2	DIP switch	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	ON OFF
	Output current	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA	
	Output voltage	9-54V	9-54V	9-54V	9-50V	9-45V	9-40V	9-37V	9-34V	
	Output power	2.25-13.5W	2.7-16.2W	3.15-18.9W	3.6-20W	4.05-20.25W	4.5-20W	4.95-20.35W	5.4-20.4W	
	DIP switch	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	
	Output current	650mA	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	
	Output voltage	9-31V	9-29V	9-27V	9-25V	9-24V	9-22V	9-21V	9-20V	
	Output power	5.85-20.15W	6.3-20.3W	6.75-20.25W	7.2-20W	7.65-20.4W	8.1-19.8W	8.55-19.95W	9-20W	

Protection

Over temp. protection: Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, auto recovers.
Over load protection: Shut down the output when current load≥102%, auto recovers.
Short circuit protection: Shut down automatically if short circuit occurs, auto recovers.
Over voltage protection: Output current declined when over non-load voltage, auto recovers.

Safety & EMC

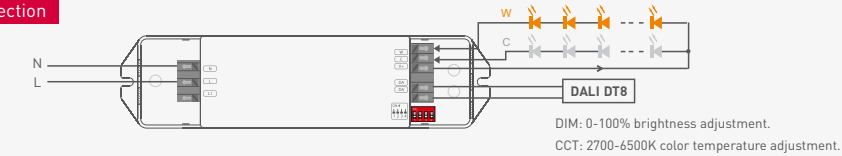
Withstand voltage: I/P-O/P: 3750Vac
Isolation resistance: I/P-O/P: 100MΩ/500VDC/25°C/70%RH
Safety standards: IEC/EN61347-1, IEC/EN61347-2-13
EMC emission: EN55015, EN61000-3-2 Class C, IEC61000-3-3
EMC immunity: EN61000-4-2,3,4,5,6,8,11, EN61547
Strobe test standard: IEEE 1789

Others

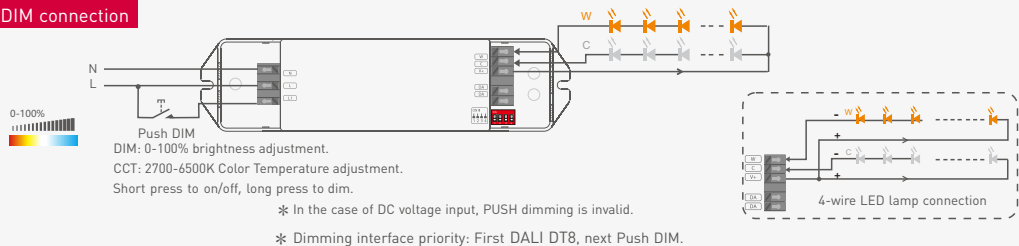
Dimension: 167×41×32mm(L×W×H)
Packing: 168×43×35mm(L×W×H)
Weight[G.W.]: 160g±10g

Wiring diagram

DALI DT8 connection



Push DIM connection



* Adopting constant power program design, it keeps the same brightness in color temperature dimming, twice the rated power load can be connected.
20W driver, 25W × 2CH load can be connected, the total power of the 2 channels will be kept in 20W.

Push DIM/CCT

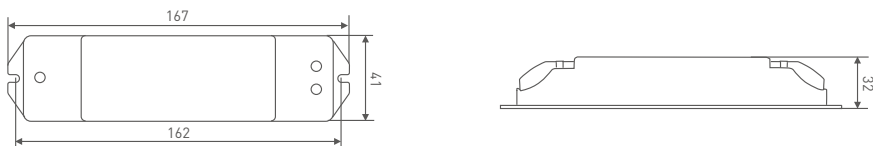


Reset switch

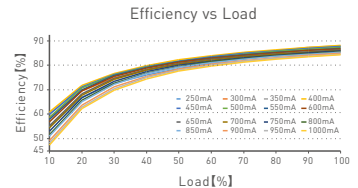
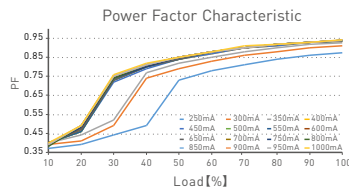
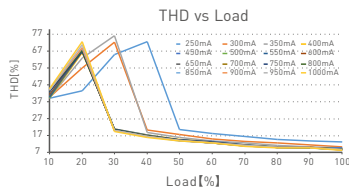
- On/off control: Short press.
- Stepless DIM/CT: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

Dimensions

Unit: mm



Relationship diagrams



* No further notice if any changes in the manual.
Product function depends on the goods.
Please feel free to contact your supplier if any question.