



General

Product Type	Constant Current Driver
Length (mm)	167
Width (mm)	39
Height (mm)	30
Housing Color	White
Housing Material	Plastic
Mounting	screw
Weight (g)	160

Electronics

Input Domain	AC
Input Voltage	220 ~ 240V AC
Output Voltage	10 ~ 54V DC
Output Current (mA) max/output	150~900
Power Consumption (W)	25
Power Factor at Full Load	+0.95 @ 230VAC
Power Supply	Internal
LED Outputs	1
Input Frequency	50 ~ 60Hz
Inrush Current	3.01 @ 230VAC

Lighting

Color Range	Single Color
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Control

Output Signal	PWM-CC
Control	DALI
Dimming Range	0~100%
Driver Configuration	Dip Switches
Number of Channels	1
Functions	Push Dim

Protection

Protection Class	II
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Environmental

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

CE IP20 2 year warranty

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.

LED Intelligent Driver

- Dimming interface: DALI, Push DIM
- T-PWM™ digital dimming, present a perfect visual experience.
- Dimming range: 0~100%, LED start at 0.01% possible.
- Flicker-free (IEEE 1789), achieve the level of exemption assessment.
- Innovative thermal management technology, intelligent power life protection.
- DALI dimming curve can be either linear or logarithmic.
- Multi-current & wide voltage, suitable for different power LED.
- Non-load output voltage 0V to prevent damages to LED caused by poor contact.
- Short circuit / Over-heat / Over load / Non-load protection, recover automatically.
- 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.

T-PWM™

Super depth dimming technology

Flicker-free

IEEE 1789

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

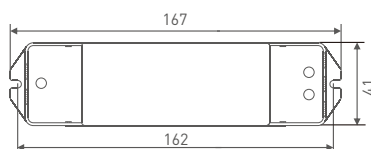
Dimmable:
0.01-100%


Specification

Model		DALI-15-100-700-E1A1	DALI-25-150-900-E1A1	DALI-36-200-1200-E1A1
OUTPUT	Output Voltage	10-54Vdc		
	Max Output Voltage	58Vdc		
	Non-load Output Voltage:	0Vdc		
	Output Current	100-700mA	150-900mA	200-1200mA
	Output Power	1~15W	1.5~25W	2~36W
	Strobe Level	Exemption assessment level.		
	Dimming Range	0~100%, LED start at 0.01% possible.		
	PWM Dimming Frequency	≤3600Hz (frequency conversion dimming)		
	Current Accuracy:	±5%		
	Ripple & Noise	≤2V (no dim)		
INPUT	Dimming Interface	DALI, Push Dim		
	Input Voltage Range	220-240Vac ±10%		
	Frequency	50/60Hz		
	Input Current	<0.15A	<0.2A	<0.3A
	Power Factor	PF>0.90/230Vac, at full load	PF>0.93/230Vac, at full load	PF>0.95/230Vac, at full load
	THD	≤20% at 230Vac, at full load		
	Efficiency(typ.)	83%	84%	87%
	Inrush Current(typ.)	Cold start 2.53A at 230Vac (twidh=25.1μs measured at 50% Ipeak)	Cold start 3.01A at 230Vac (twidh=35μs measured at 50% Ipeak)	Cold start 6.31A at 230Vac (twidh=58.4μs measured at 50% Ipeak)
	Anti Surge	L-N: 1kV		
	Leakage Current	<0.5mA/230Vac		
ENVIRONMENT	Working Temperature	ta: 50°C tc: 90°C		
	Working Humidity	20 ~ 95%RH, non-condensing		
	Storage Temp., Humidity	-40°C ~ 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	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, , auto recovers.		
	Over Load Protection	Shut down the output when rated power≥102%, auto recovers.		
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.		
	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	Strobe Test Standard	IEEE 1789		
	Dimension	167×41×32mm[L×W×H]		
	Packing	168×43×35mm[L×W×H]		
	Weight[G.W.]	165g±10g		

Dimensions

Unit: mm



LED Current Selection

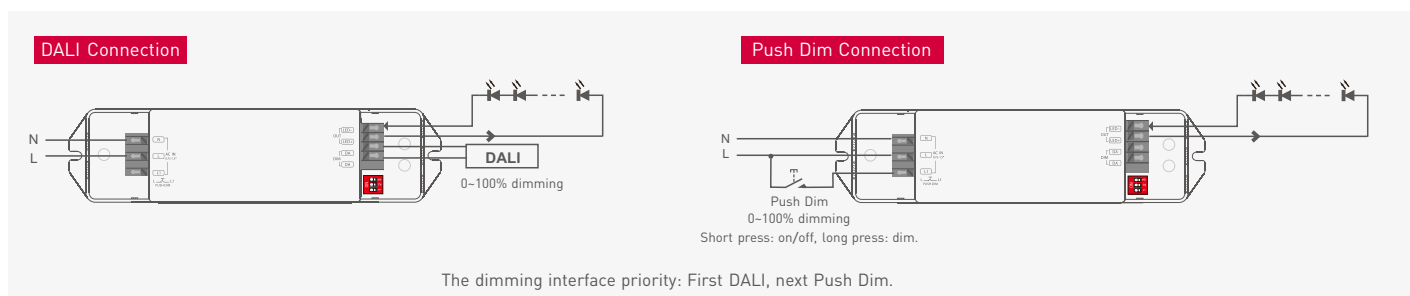
DIP switch for 8 optional currents' quick selection[see the table below].

DALI-15-100-700-E1A1	DIP Switch									 ON OFF
	Output Current	100mA	180mA	300mA	350mA	450mA	500mA	600mA	700mA	
	Output Voltage	10-54V	10-54V	10-50V	10-43V	10-34V	10-30V	10-25V	10-22V	
	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	
DALI-25-150-900-E1A1	DIP Switch									 ON OFF
	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	
DALI-36-200-1200-E1A1	DIP Switch									 ON OFF
	Output Current	200mA	350mA	500mA	600mA	700mA	900mA	1050mA	1200mA	
	Output Voltage	10-54V	10-54V	10-54V	10-54V	10-52V	10-40V	10-35V	10-30V	
	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	

* 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.

Wiring Diagram



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.

Relationship Diagrams

