

### General

Product Type	Constant Voltage Driver
Length (mm)	292
Width (mm)	43
Height (mm)	30
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	300

## **Electronics**

Input Domain	AC
Input Voltage	220 ~ 240V AC
Output Voltage	24V DC
Output Current Max. (A)	4.17
Output Power Range (W)	0~100
Power Factor at Full Load	+0.98 @ 230VAC
Power Supply	Internal
Input Frequency	50 ~ 60Hz
Inrush Current	45A @ 230VAC

# Lighting

Color Range Single Color	Color Range	Single Color	
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### Control

Output Signal	DALI-2, PWM-CV
Control	DALI
Dimming Range	0~100%
Number of Channels	1

## **Protection**

Overload	Yes
Restart after Protection	Yes
Protection Class	II

## Environmental

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



CE ROHS IP20 5 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.

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# LED Intelligent Driver

- Dimming interface: DALI, Push DIM.
- Dimming range from 0-100%, LED start at 0.1% possible.
- DALI protocol: DALI 1, DALI 2.
- DALI dimming curve: Liner curve or logarithmic curve.
- 0~100% flicker-free, achieve the level of exemption assessment.
- Over-heat / Over voltage / Over load / Short circuit protection, recover automatically.
- Standby Power Loss < 0.5W
- Full protective plastic housing.
- DALI bus standard: IEC62386-101,102, 207.
- Compliant with Safety Extra Low Voltage standard.
- $\bullet$  Suitable for indoor  $\mathbb{I}/\mathbb{II}/\mathbb{II}$  type lamps application.







DALL SELV



Flicker-free

Achieve the exemption level.

IEEE 1789





Dimmable:

0.1%-100%

□ CB ⊕



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**Push DIM** 

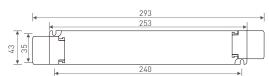


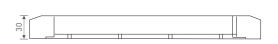
Model		LM-75-12-G1D2 LM-75-24-G1D2 LM-100-24-G1D2			
	Output Voltage	12Vdc 24Vdc			
	Output Voltage Range	12Vdc ±0.5Vdc 24Vdc ± 0.5Vdc			
	Output Current	Max. 6.25A	Max. 3.125A	Max. 4.17A	
	Output Power	Max. 75W		Max. 100W	
ОИТРИТ	Output Power Range	0~75W	0~100W		
001701	Strobe Level	High frequency exemption level.  0~100%, dimming depth: Max. 0.1%			
	Dimming Range				
	Overload Power Limitation	≥102%			
	Ripple & Noise	≤200mV	≤300mV		
	PWM Frequency	≤3600Hz			
	Dimming Interface	DALI (IEC62386), Push DIM			
	Input Voltage	220-240Vac 50/60Hz			
	Frequency				
	Input Current	Max. 0.4A/230Vac		Max. 0.5A/230Vac	
	Power Factor	PF>0.97/230Vac, at full load		PF>0.98/230Vac, at full load	
INPUT	THD	≤14% at 230Vac, at full load		230Vac@THD≤12% , at full load	
	Efficiency (typ.)	91%	92%	93%	
	Standby Power Loss	<0.5W			
	Inrush Current(typ.)	Cold start 40A at 230Vac	Cold start 45.2A at 230Vac		
	Control surge capability	L-N:2KV			
	Leakage Current	Max. 0.5mA			
	Working Temperature	ta: -20°C ~ 50°C tc: 80°C  20 ~ 95%RH, non-condensing  -40°C ~ 80°C, 10~95%RH  ±0.03%/°C (0-50°C)  10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.			
	Working Humidity				
ENVIRONMENT	Storage Temp., Humidity				
	Temp. Coefficient				
	Vibration				
	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, auto recovers.			
PROTECTION	Over Voltage Protection	Shut down the output when non-load voltage ≥ 13V, auto recovers.	Shut down the output when non-load voltage≥26\	/, auto recovers.	
T KOTZOTION	Over Load Protection	Shut down the output when current load≥102%, auto recovers.  Shut down automatically if short circuit occurs, auto recovers.			
	Short Circuit Protection				
	Withstand Voltage	I/P-0/P: 3750Vac   I/P-0/P: 100MΩ/500VDC/25°C/70%RH   IEC/EN61347-1, IEC/EN61347-2-13   EN55015, EN61000-3-2 Class C, IEC61000-3-3			
	Isolation Resistance				
SAFETY &	Safety Standards				
EMC	EMC Emission				
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547			
	Strobe Test Standard	IEEE 1789			
	Dimension	293×43×30mm(L×W×H)			
OTHERS	Packing	296×44×33mm(L×W×H)			
	Weight(G.W.)	300g±10g			

<sup>\*</sup> The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The instantaneous surge current will be several times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), then we can prepare the special programs.

## **Dimensions**

Unit: mm







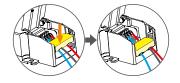


#### **Wiring Diagram**



### **Application of Protective Cover**

Wire pressing board:



Push the wire pressing board to fix the wire.



Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board.

## Uninstall protective cover:



Break off the bottom left and right to remove the protective cover.

## **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**

