# LED Driver DALI 75W 24V - LM-75-24-G1D2

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## General

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)	3.125		
Output Power Range (W)	0~75		
Power Factor at Full Load	+0.97 @ 230VAC		
Power Supply	Internal		
Input Frequency	50 ~ 60Hz		
Inrush Current	40A @ 277VAC		
Lighting			
Color Range	Single Color		
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			
Storage Temperature	-40 ~ +80 °C		
Operating Temperature	-20 ~ +50 °C		
Ingress Protection	IP20		

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# 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.
- Suitable for indoor I/II/III type lamps application.







DALL SELV

Flicker-free

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TUV

Jul

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IEEE 1789

Achieve the exemption level. Ø

Dimmable: 0.1%-100%

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**RoHS** 

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DALI

Push DIM

### Specification

DALI

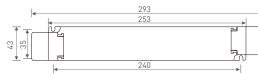
PUSH DIM

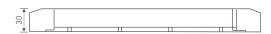
Model		LM-75-12-G1D2	LM-75-24-G1D2	LM-100-24-G1D2		
	Output Voltage	12Vdc	24Vdc			
OUTPUT	Output Voltage Range	12Vdc ±0.5Vdc	24Vdc ± 0.5Vdc			
	Output Current	Max. 6.25A	Max. 3.125A	Max. 4.17A		
	Output Power	Max. 75W		Max. 100W		
	Output Power Range	0~75W		0~100W		
	Strobe Level	High frequency exemption level.				
	Dimming Range	0~100%, dimming depth: Max. 0.1%				
	Overload Power Limitation	≥102%				
	Ripple & Noise	≤200mV	≤300mV			
	PWM Frequency	≤3600Hz				
INPUT	Dimming Interface	DALI (IEC62386), Push DIM				
	Input Voltage	220-240Vac				
	Frequency	50/60Hz				
	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		
	THD	≤14% at 230Vac, at full load		230Vac@THD≤12% , at full load		
INFOI	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				
ENVIRONMENT	Working Temperature	ta: -20°C ~ 50°C tc: 80°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 Voltage Protection	Shut down the output when non-load voltage $\geqslant$ 13V, auto recovers.	Shut down the output when non-load voltage $\geqslant$ 26V, 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.				
SAFETY & EMC	Withstand Voltage	I/P-0/P: 3750Vac				
	Isolation Resistance	I/P-0/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	293×43×30mm(L×W×H)				
	Packing	296×44×33mm(L×W×H)				
	Weight(G.W.)	300g±10g				

\* 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

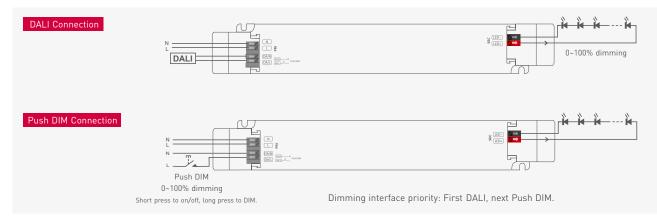






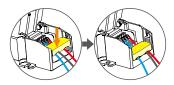
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### Wiring Diagram



### **Application of Protective Cover**

Wire pressing board:



Push the wire pressing board to fix the wire.

### **Push Dimming**

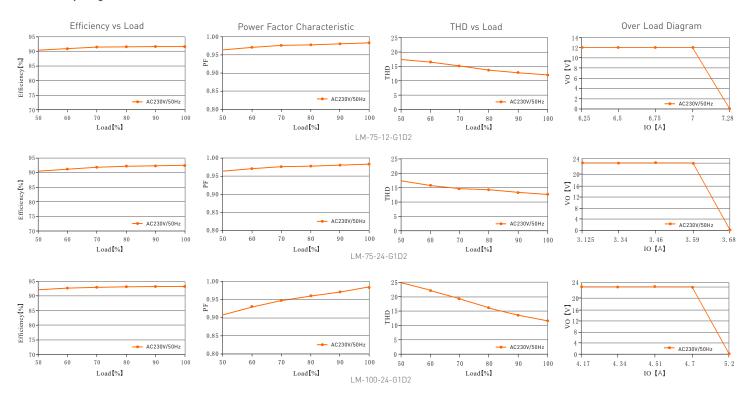


Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board.

- 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.

Reset switch

### **Relationship Diagrams**



Uninstall protective cover:



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