LED Driver DALI DT8 75W 12V - LM-75-12-G2D2

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				
Input Current max (A)	0.4A @ 230V AC				
Output Voltage	12V DC				
Output Current Max. (A)	6.25				
Output Power Range (W)	0~75				
Power Factor at Full Load	+0.97 @ 230VAC				
Power Supply	Internal				
Input Frequency	50 ~ 60Hz				
Inrush Current	30A @ 230VAC				
Lighting					
Color Range	Tunable White				
Control					
Output Signal	DALI DT8, PWM-CV				
Dimming Range	0~100%				
Number of Channels	2				
Protection					
Protection Class	II				
Environmental					
Storage Temperature	-40 ~ +80 °C				
Operating Temperature	–20 ~ +50 °C				
Ingress Protection	IP20				

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RoHS



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 DT8, Push DIM/CCT
- 2 independently SELV constant voltage output channels.
- DALI DT8, DIM and color temperature adjusting driver.
- Constant power design, adjust different color temperature to keep the same brightness.
- Dimming range from 0-100%, LED start at 0.1% possible.
- Color temperature adjusting range: 2700-6500K
- 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
- Standby Power Loss: <0.5W
- Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
 Suitable for indoor I/I/III type lamps application.

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IEEE 1789 Achieve the exemption level. DT SELV D

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Flicker-free





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DT8 DIM & CT adjustment

Dimmable: 0.1%-100%

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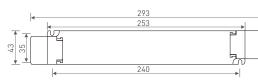
Specification

Model		LM-75-12-G2D2	LM-75-24-G2D2	LM-100-24-G2D2	
	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 DT8(IEC62386), Push DIM/CCT			
	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		≤12% at 230Vac, at full load	
	Efficiency (typ.)	91%	92%	93%	
	Standby Power Loss	<0.5W			
	Inrush Current(typ.)	Cold start 30A at 230Vac (twidth=1000µs measured at 50% [peak] Cold start 45.2A at 230Vac (twidth=372µs measured at 50% [peak]			
	Control surge capability	L-N:2KV			
	Leakage Current	Max. 0.5mA			
	Working Temperature	ta: -20°C ~ 50°C tc: 80°C			
	Working Humidity	20 ~ 95%RH, non-condensing			
ENVIRONMENT	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.			
	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, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage $\geq\!26V$, re-power on to recover after fault condition is removed.		
	Over Load Protection	Shut down the output when current load≥102%, auto recovers.			
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, auto recovers.			
	Withstand Voltage	I/P-0/P: 3750Vac			
	Isolation Resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH			
SAFETY &	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13			
EMC	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

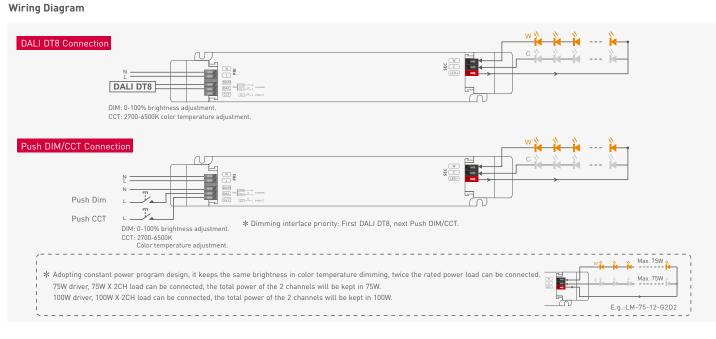












Push DIM/CCT



DIM

- 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

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.

CCT

- Color temperature adjustment: Long press.
- With every other long press, the color temperature level goes to the opposite direction.
 Color temperature memory: Color temperature will be the same as previously adjusted
- when turning off and on again.

Uninstall protective cover:



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

