



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
Anti Surge	L-N: 2kV
Efficiency	93%
Leakage current max. (mA)	0.5
Standby Power Loss Max. (W)	0.5
Input Frequency	50 ~ 60Hz
Inrush Current	45.2A @ 230VAC

Lighting

Color Range	Tunable White
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Control

Output Signal	PWM-CV
Control	DMX
RDM Support	Yes
Dimming Range	0~100%
Number of Channels	2

Protection

Protection Class	II
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Environmental

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

CE IP20

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: DMX512/RDM, Push DIM/CCT
- 2 independently SELV constant voltage output channels.
- Constant power design, adjust different color temperature to keep the same brightness.
- DMX/RDM DIM and color temperature adjusting driver.
- Supports RDM remote device management protocol.
- 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
- Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor I / II / III type lamps application.



Flicker-free
IEEE 1789
Achieve the exemption level.

DIM & CT adjustment

Dimmable:
0.1%-100%



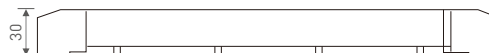
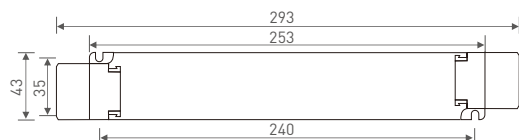
Specification

Model		LM-75-12-G2M2	LM-75-24-G2M2	LM-100-24-G2M2		
OUTPUT	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		
	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	DMX/RDM, 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% Ipeak)		Cold start 45.2A at 230Vac (twidth=372μs measured at 50% Ipeak)		
	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 ≥ 13V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage≥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.				
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	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.

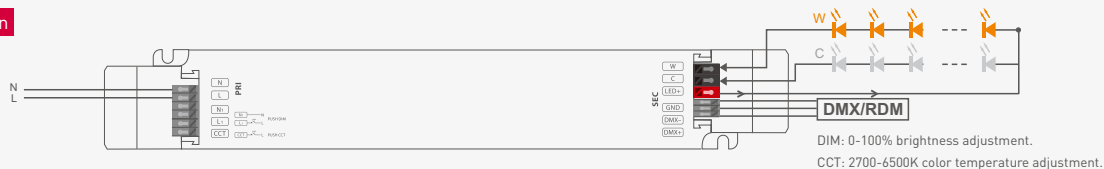
Dimensions

Unit: mm

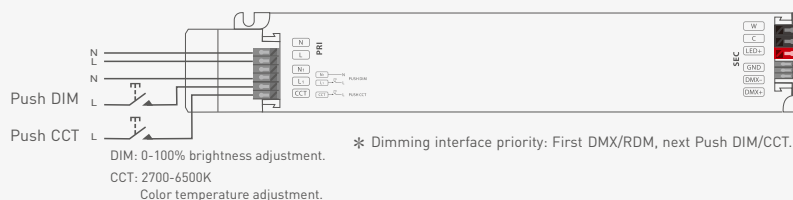


Wiring Diagram

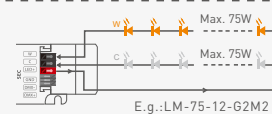
DMX/RDM Connection



Push DIM/CCT Connection



* Adopting constant power program design, it keeps the same brightness in color temperature dimming, twice the rated power load can be connected.
75W driver, 75W X 2CH load can be connected, the total power of the 2 channels will be kept in 75W.
100W driver, 100W X 2CH load can be connected, the total power of the 2 channels will be kept in 100W.



Push DIM/CCT



Reset switch

DIM

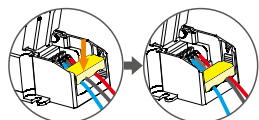
- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

CCT

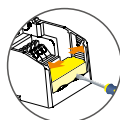
- Color temperature adjustment: Long press.
- With every other long press, the color temperature level goes to the opposite direction.
- Color temperature memory: Color temperature will be the same as previously adjusted when turning off and on again.

Application of Protective Cover

Wire pressing board:

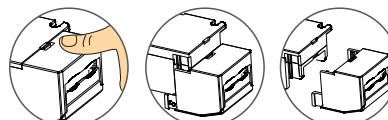


Push the wire pressing board to fix the wire.



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.

Relationship Diagrams

