



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	200 ~ 240V AC
Output Voltage	24V DC
Output Current (mA) max/output	3125
Output Current Max. (A)	3.125
Output Power Range (W)	0~75
Power Factor at Full Load	+0.97 @ 230VAC
Power Supply	Internal
LED Outputs	1
Anti Surge	L-N: 2kV
Efficiency	92%
Leakage current max. (mA)	0.5
Standby Power Loss Max. (W)	0.5
Input Frequency	60Hz
Inrush Current	30A @ 230VAC

Lighting

Color Range	Single Color
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Control

Output Signal	PWM-CV
Control	DMX
RDM Support	Yes
Dimming Range	0~100%
Number of Channels	1

Protection

Protection Class	III
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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.
- Supports RDM remote device management protocol,
- Dimming range from 0-100%, LED start at 0.1% possible.
- 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

Achieve the exemption level.


Dimmable:
0.1%-100%

SELV



RoHS


DMX/RDM
PUSH DIM

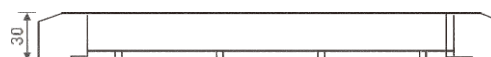
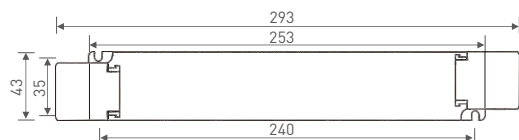

Specification

Model	LM-75-12-G1M2	LM-75-24-G1M2	LM-100-24-G1M2
OUTPUT	Output Voltage	12Vdc	24Vdc
	Output Voltage Range	12Vdc ±0.5Vdc	24Vdc ±0.5Vdc
	Output Current	Max. 6.25A	Max. 3.12A
	Output Power	Max. 75W	Max. 4.17A
	Output Power Range	0~75W	Max. 100W
	Strobe Level	High frequency exemption level.	0~100W
	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	
	Input Voltage	200-240Vac	
	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%
	Standby Power Loss	<0.5W	93%
	Inrush Current[typ.]	Cold start 30A at 230Vac	Cold start 45.2A at 230Vac
	Control surge capability	L-N:2KV	
ENVIRONMENT	Leakage Current	Max. 0.5mA	
	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)	
PROTECTION	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.	
	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.	
SAFETY & EMC	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.	
	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-PAR 1789	
	Dimension	293×43×30mm(L×W×H)	
	Packing	296×44×33mm(L×W×H)	
OTHERS	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

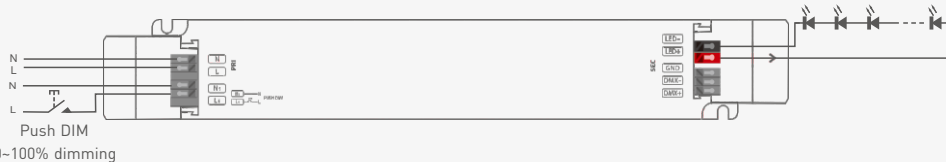


Wiring Diagram

DMX/RDM Connection



Push DIM Connection

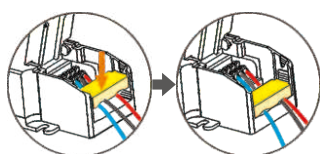


Short press to on/off, long press to dim.

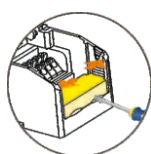
Dimming interface priority: First DMX/RDM, next Push DIM.

Application of Protective Cover

Wire pressing board:

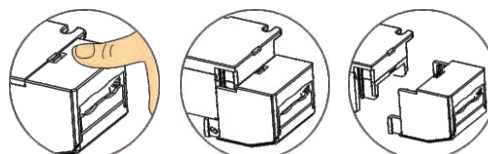


Push the wire pressing board to fix the wire.



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.

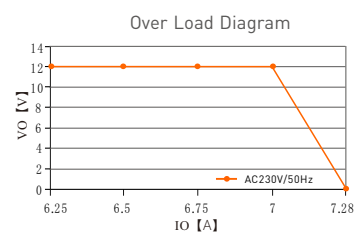
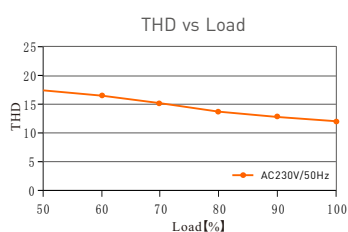
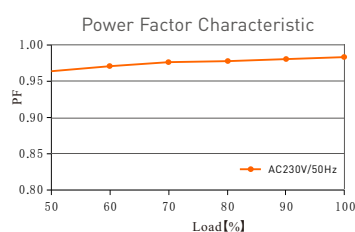
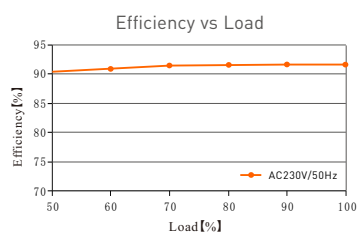
Push Dimming



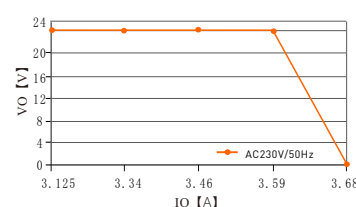
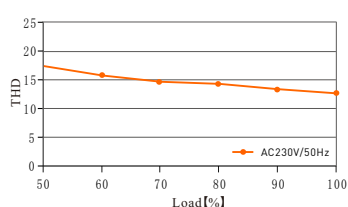
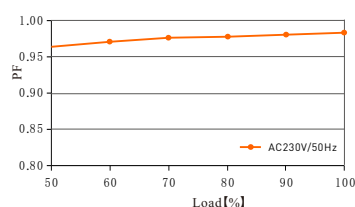
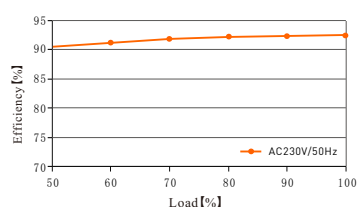
Reset switch

- 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.

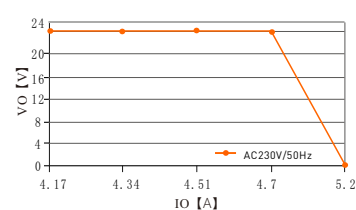
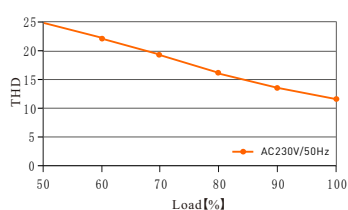
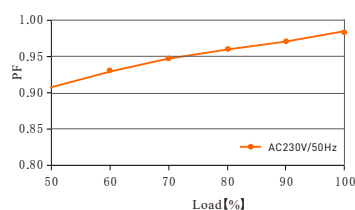
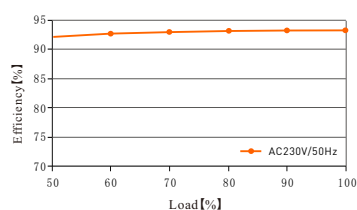
Relationship Diagrams



LM-75-12-G1M2



LM-75-24-G1M2



LM-100-24-G1M2