



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	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
LED Outputs	1
Efficiency	91%
Leakage current max. (mA)	0.5
Standby Power Loss Max. (W)	0.5
Input Frequency	50 ~ 60Hz
Inrush Current	30A @ 230VAC

Lighting

Color Range	Single Color
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Control

Output Signal	PWM-CV
Control	0-10V
Dimming Range	0~100%
Number of Channels	1

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: 0-10V(1-10V/10V PWM/RX), Push DIM
- Built-in SCM, dimming curve and smoothing time of power on can be customized.
- Dimming range from 0-100%, LED start at 0.1% possible.
- Automatic recognition of 0-10V, 1-10V input signal.
- 0~100% flicker-free, achieve the level of exemption assessment.
- Over-heat / Over voltage / Over load / Short circuit protection, recover automatically.
- 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.

Dimmable:

0.1%-100%

5 in 1 dimming

0-10V
1-10V
10V PWM
RX
Push DIM



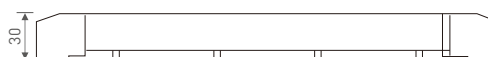
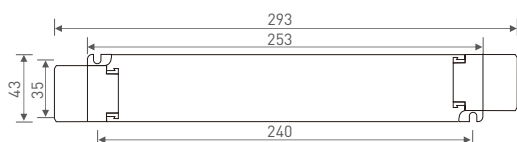
Specification

Model	LM-75-12-G1A2	LM-75-24-G1A2	LM-100-24-G1A2
OUTPUT	Output Voltage	12Vdc	24Vdc
	Output Voltage Range	12Vdc ± 0.5 Vdc	24Vdc ± 0.5 Vdc
	Output Current	Max. 6.25A	Max. 3.125A
	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	$\geq 102\%$	
	Ripple & Noise	≤ 200 mV	≤ 300 mV
	PWM Frequency	≤ 3600 Hz	
INPUT	Dimming Interface	0-10V(1-10V/10V PWM/RX), 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	$\leq 14\%$ at 230Vac, at full load	$\leq 12\%$ at 230Vac, at full load
	Efficiency (typ.)	91%	92%
	Inrush Current(typ.)	Cold start 30A at 230Vac	Cold start 45A 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	$\pm 0.03\%/^{\circ}\text{C}$ (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 $\geq 110^{\circ}\text{C}$, auto recovers.	
	Over Voltage Protection	Shut down the output when non-load voltage ≥ 13 V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage ≥ 26 V, re-power on to recover after fault condition is removed.
	Over Load Protection	Shut down the output when current load $\geq 102\%$, auto recovers.	
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.	
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac	
	Isolation Resistance	I/P-O/P: 100M Ω /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 $\times$ 43 $\times$ 30mm(L $\times$ W $\times$ H)	
	Packing	296 $\times$ 44 $\times$ 33mm(L $\times$ W $\times$ H)	
	Weight(G.W.)	300g $\pm$ 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.

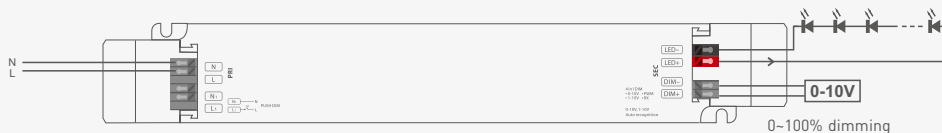
Dimensions

Unit: mm



Wiring Diagram

0-10V Connection



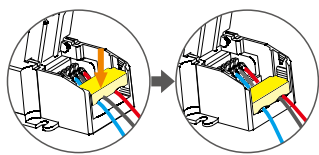
Push DIM Connection



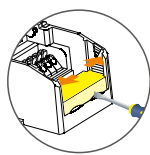
Dimming interface priority: First 0-10V, next Push DIM.

Application of Protective Cover

Wire pressing board:

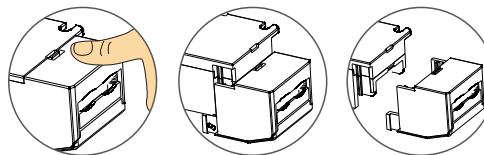


Push the wire pressing board to fix the wire.



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.

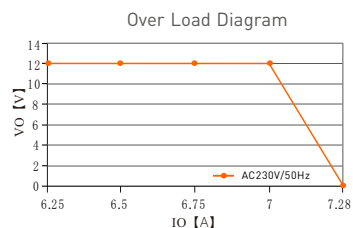
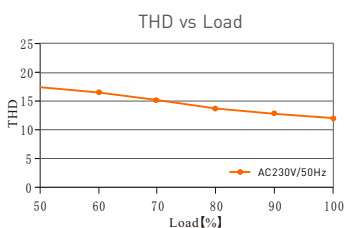
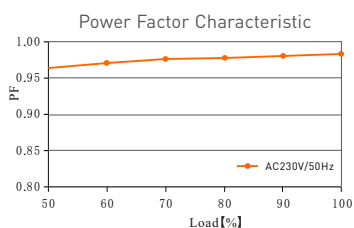
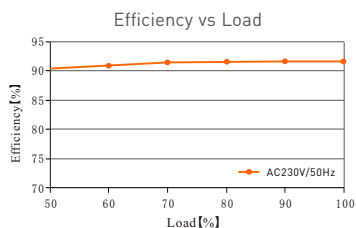
Push Dimming



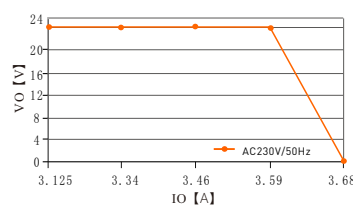
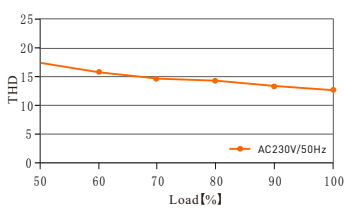
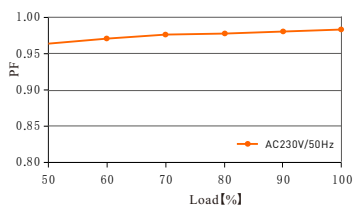
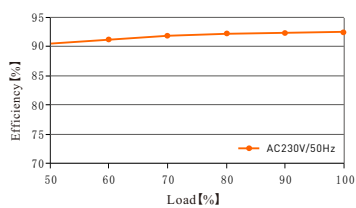
Reset switch

- 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.

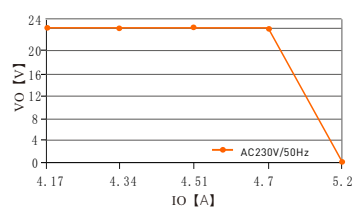
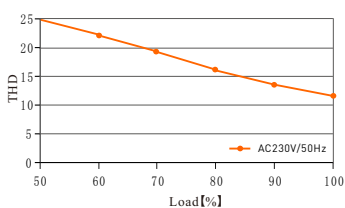
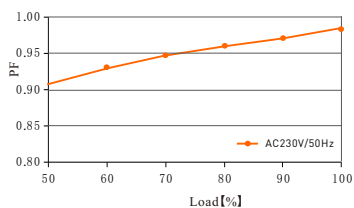
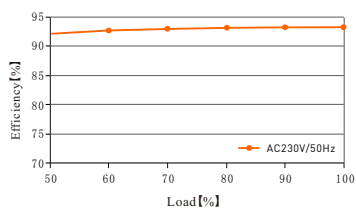
Relationship Diagrams



LM-75-12-G1A2



LM-75-24-G1A2



LM-100-24-G1A2