



General

Product Type	Constant Voltage Driver
Length (mm)	293
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	+0.98 @ 230VAC
Power Supply	Internal
LED Outputs	1
Anti Surge	L-N: 2kV
Efficiency	87%
Leakage current max. (mA)	0.5
Standby Power Loss Max. (W)	0.5
THD (at full load)	6% @ 230V AC
Input Frequency	50 ~ 60Hz
Inrush Current	30A @ 230VAC

Lighting

Color Range	Single Color
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Control

Output Signal	PWM-CV
Control	TRIAC
Dimming Range	0~100%

Protection

Protection Class	II
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Environmental

Storage Temperature	-40 ~ +80 °C
Operating Temperature	-20 ~ +50 °C
Ingress Protection	IP20

CE 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.



LED Intelligent Driver (CV)

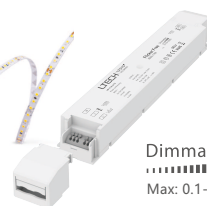
- Leading edge (Triac), Trailing edge (ELV) phase-cut and Push DIM/CCT.
- Built-in SCM, dimming curve and smoothing time can be customized.
- Dimming range: 0~100%, LED start at 0.1% possible.
- 0~100% flicker-free (IEEE 1789 standard).
- Innovative thermal management technology, intelligent power life protection.
- Over load / Over temp. / Short circuit / Over voltage protection, recover automatically.
- Suitable for internal lights application for I /II/III.
- 5 years warranty (Rubycon capacitor).



Flicker-free

IEEE 1789

Achieve the exemption level.



Dimmable:

Max: 0.1~100%



Class 2



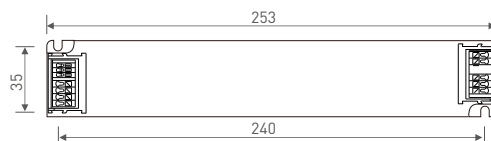
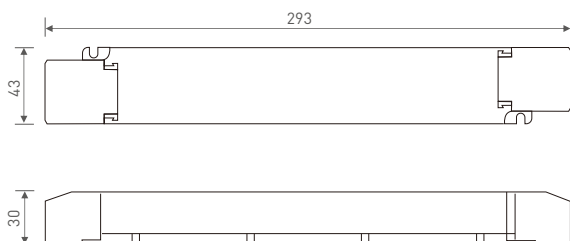
Specification

Model		LM-75-12-G1T2	LM-75-24-G1T2
OUTPUT	Output voltage	12Vdc	24Vdc
	Output voltage range	12Vdc $\pm$ 0.5Vdc	24Vdc $\pm$ 0.5Vdc
	Output current	Max. 6.25A	Max. 3.125A
	Output power	Max. 75W	
	Output power range	0~75W	
	Strobe level	High frequency exemption level.	
	Dimming range	0~100%, dimming depth: Max. 0.1%	
	Overload power limitation	$\geq 102\%$	
	Ripple & Noise	$\leq 150\text{mV}$	
	PWM frequency	$\leq 3600\text{Hz}$	
INPUT	Dimming interface	Leading edge (Triac), Trailing edge (ELV) phase-cut and Push DIM/CCT.	
	Input voltage	220~240Vac	
	Frequency	50/60Hz	
	Input current	230Vac $\leq$ 0.4A	
	Power factor	PF>0.98/230Vac, at full load	
	THD	230Vac@THD $\leq$ 6%, at full load	
	Efficiency (typ.)	87%	88%
	Inrush current(typ.)	Cold start 30A at 230Vac	
	Control surge capability	L-N: 2kV	
	Leakage current	Max. 0.5mA	
ENVIRONMENT	Working temperature	ta: -20 ~ 50°C tc: 85°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 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.	
	Over voltage protection	Shut down the output when non-load voltage $\geq 13\text{V}$, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage $\geq 26\text{V}$, re-power on to recover after fault condition is removed.
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.]	350g $\pm$ 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.

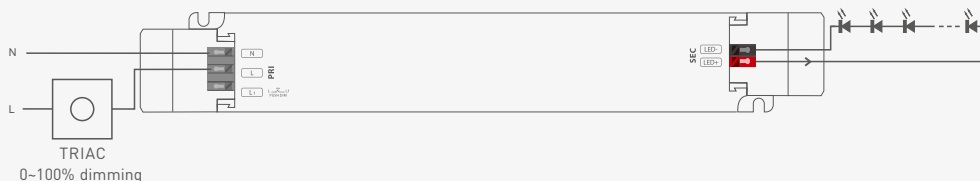
Dimensions

Unit: mm

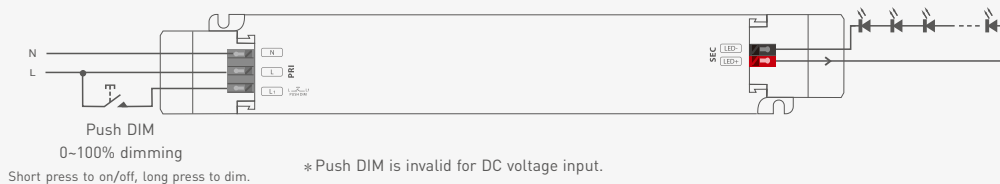


Wiring diagram

Triac connection



Push DIM connection



Dimming interface priority: First Triac, next Push DIM.

Push dimming

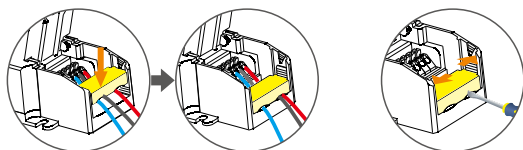


Reset switch

- 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.

Application of protective cover

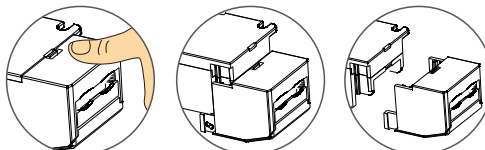
Wire pressing board:



Push the wire pressing board to fix the wire.

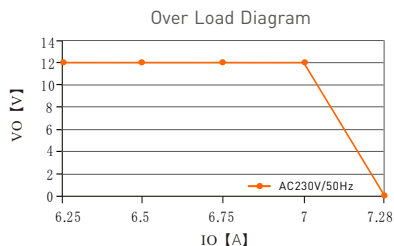
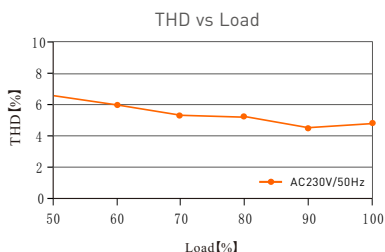
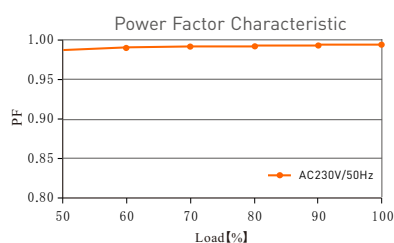
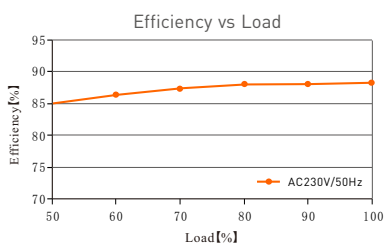
Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board.

Uninstall protective cover:

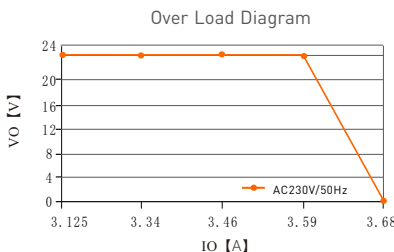
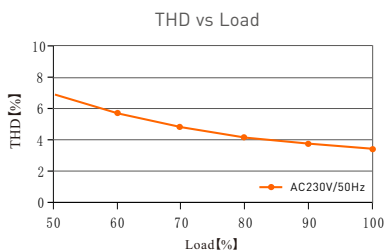
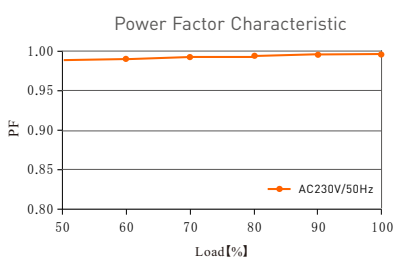
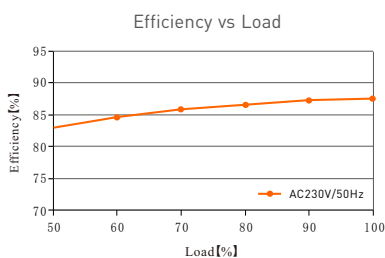


Break off the bottom left and right to remove the protective cover.

Relationship diagrams



LM-75-12-G1T2



LM-75-24-G1T2

* No further notice if any changes in the manual.
Product function depends on the goods.
Please feel free to contact your supplier if any question.