LED Driver TRIAC 75W 12V - LM-75-12-G1T2

2842200



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		
Control			
Output Signal	PWM-CV		
Control	TRIAC		
Dimming Range	0~100%		
Protection			
Protection Class	II		
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.

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General



LTECH 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).

Triac/ELV
Push DIM
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CB

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Dimmin Dept



SELV



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Flicker-free

IEEE 1789 Achieve the exemption level



🖯 CE RoHS 🖄



Triac/ELV

Push DIM

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 ± 0.5Vdc	24Vdc ± 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	≥102%		
	Ripple & Noise	≤150mV		
	PWM frequency	≤3600Hz		
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≤0.4A		
	Power factor	PF>0.98/230Vac , at full load		
INPUI	THD	230Vac@THD≤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	±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 \ge 110°C, auto recovers.		
	Over load protection	Shut down the output when current load≥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 ${\geqslant}13V,$ 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.	
SAFETY & EMC	Withstand voltage	I/P-0/P: 3750Vac	·	
	Isolation resistance	I/P-0/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.)	350g±10g		

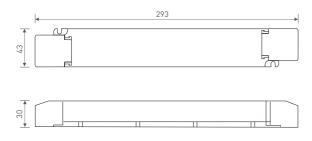
* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The instantaneous surge current will be several times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). 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.

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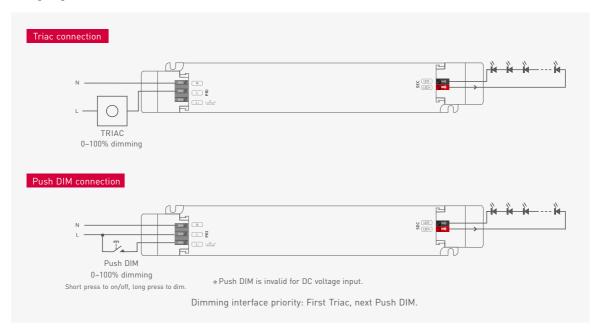
Dimensions

Unit: mm





Wiring diagram



Push dimming



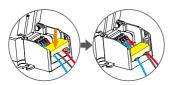
- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

Reset switch



Application of protective cover

Wire pressing board:



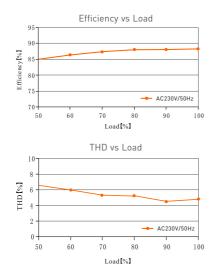
Push the wire pressing board to fix the wire.

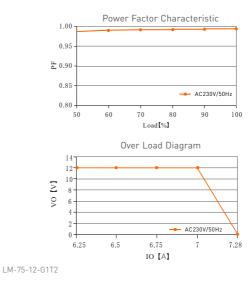
Relationship diagrams

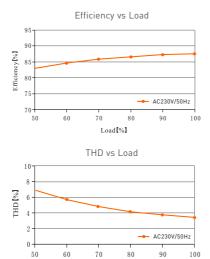
Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board. Uninstall protective cover:



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

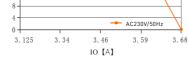






Load[%]

Power Factor Characteristic 1.00 0.95 뚭 0.90 0.85 AC230V/50Hz 0.80 50 60 70 80 90 100 Load[%] Over Load Diagram 24 20 V0 [V] 16-12-



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.