

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)	O~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

Control

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

Protection

Protection Class

Environmental

Operating Temperature	-20 ~ +50 °C
Ingress Protection	TP20

(€ 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.



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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.
- $\bullet~$ Dimming range from 0-100%, LED start at 0.1% possible.
- Automatic recognition of 0-10V, 1-10V input signal.
- $\bullet\,$ 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.











IEEE 1789

Flicker-free



Achieve the exemption level.





Dimmable: 0.1%-100%



5 in 1 dimming

Push DIM













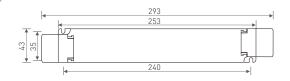
Specification

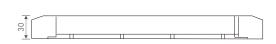
Model		LM-75-12-G1A2	LM-75-24-G1A2	LM-100-24-G1A2		
	Output Voltage	12Vdc	24Vdc			
	Output Voltage Range	12Vdc ±0.5Vdc	24Vdc ±0.5Vdc			
	Output Current	Max. 6.25A	Max. 3.125A	Max. 4.17A		
	Output Power	Max. 75W		Max. 100W		
ОИТРИТ	Output Power Range	0~75W		0~100W		
	Strobe Level	High frequency exemption level.				
	Dimming Range	0~100%, dimming depth: Max. 0.1%				
	Overload Power Limitation	≥102%				
	Ripple & Noise	≤200mV ≤300mV				
	PWM Frequency	≤3600Hz				
	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.		PF>0.98/230Vac, at full load		
INPUT	THD	≤14% at 230Vac, at full load		≤12% at 230Vac, at full load		
	Efficiency (typ.)	91%	92%	93%		
	Inrush Current(typ.)	Cold start 30A at 230Vac		Cold start 45A at 230Vac		
	Control surge capability	L-N:2KV				
	Leakage Current	Max. 0.5mA				
	Working Temperature					
	Working Humidity	20 ~ 95%RH, non-condensing				
ENVIRONMENT	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.				
	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, auto recovers.				
PROTECTION	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	Shut down automatically if short circuit occurs, auto recovers.				
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.)	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





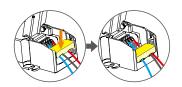


Wiring Diagram



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

