

LED Intelligent Driver (constant voltage)

- Dimming range from 0-100%, LED start at 0.1% possible.
- Dimming interface: 0-10V(1-10V/10V PWM/RX), Push DIM
- With soft-on and fade in function, visual more comfortable.
- Automatic recognition of 0-10V, 1-10V input signal.
- 0-100% flicker-free, High frequency exemption level.
- Ultra-low consumption of 0-10V ports: < 0.05mA.
- Innovative thermal management technology, intelligent power life protection.
- Over-heat / Over voltage / Over load / Short circuit protection, recover automatically.
- Fully-protected plastic housing with design of dismountable end cover.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor I/II/III type lamps application.
- Up to 50000-hour life time.
- 5 years warranty (Rubycon capacitor).

Flicker-free
IEEE 1789
High frequency exemption level

Dimmable:
0.1%-100%



5 in 1 dimming
0-10V
1-10V
10V PWM
RX
Push DIM

Ultra-low consumption of 0-10V ports: < 0.05mA.



0-10V
Push DIM



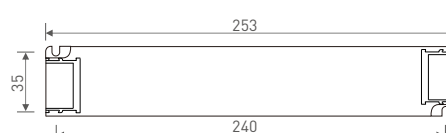
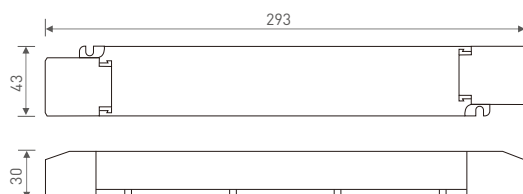
Specification

Model	LM-75-12-G1A2	LM-75-24-G1A2	LM-100-24-G1A2
OUTPUT	Output Voltage	12Vdc	24Vdc
	Output Voltage Range	12Vdc ±0.5Vdc	24Vdc ±0.5Vdc
	Output Current	Max. 6.25A	Max. 3.125A
	Output Power	Max. 75W	Max. 100W
	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	
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	≤14% at 230Vac, at full load	≤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	±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 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 inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccup 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.

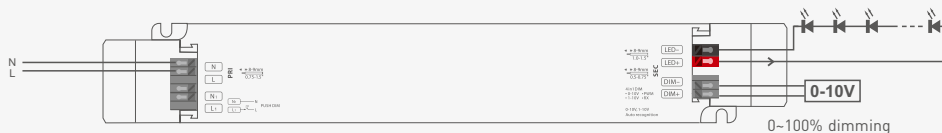
Dimensions

Unit: mm



Wiring Diagram

0-10V Connection



Push DIM Connection



Push Dimming

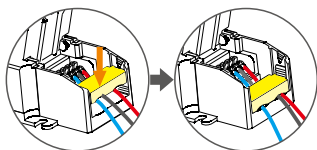


Reset switch

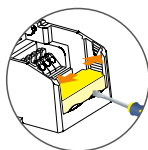
- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the brightness goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning on again.

Application of Protective Cover

Wire pressing board:

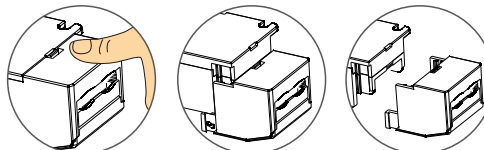


Push the wire pressing board to fix the wire.



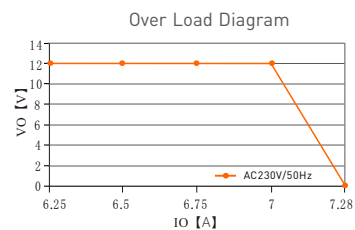
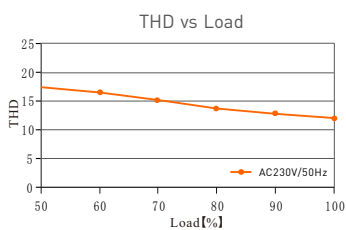
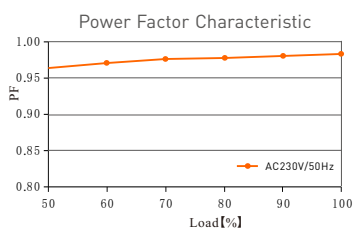
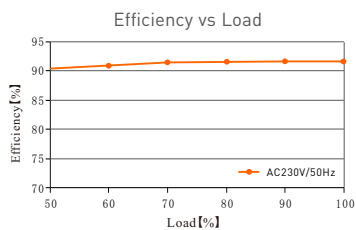
Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board.

Uninstall protective cover:

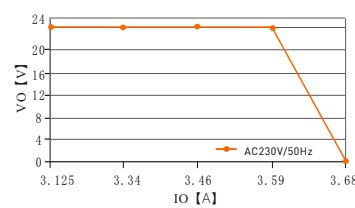
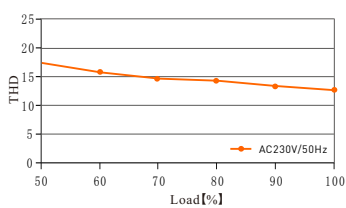
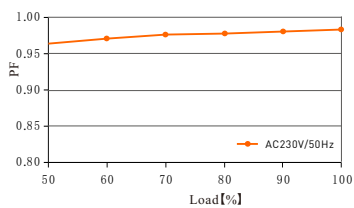
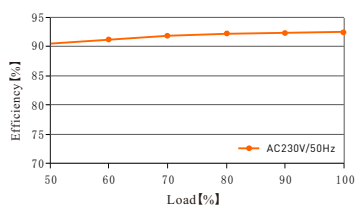


Break off the bottom left and right to remove the protective cover.

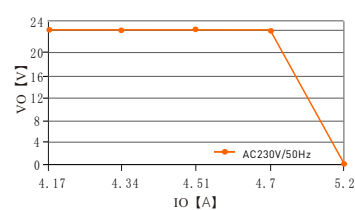
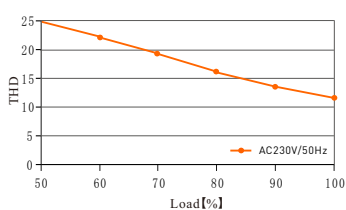
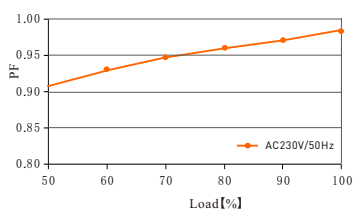
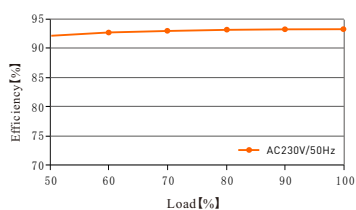
Relationship Diagrams



LM-75-12-G1A2



LM-75-24-G1A2



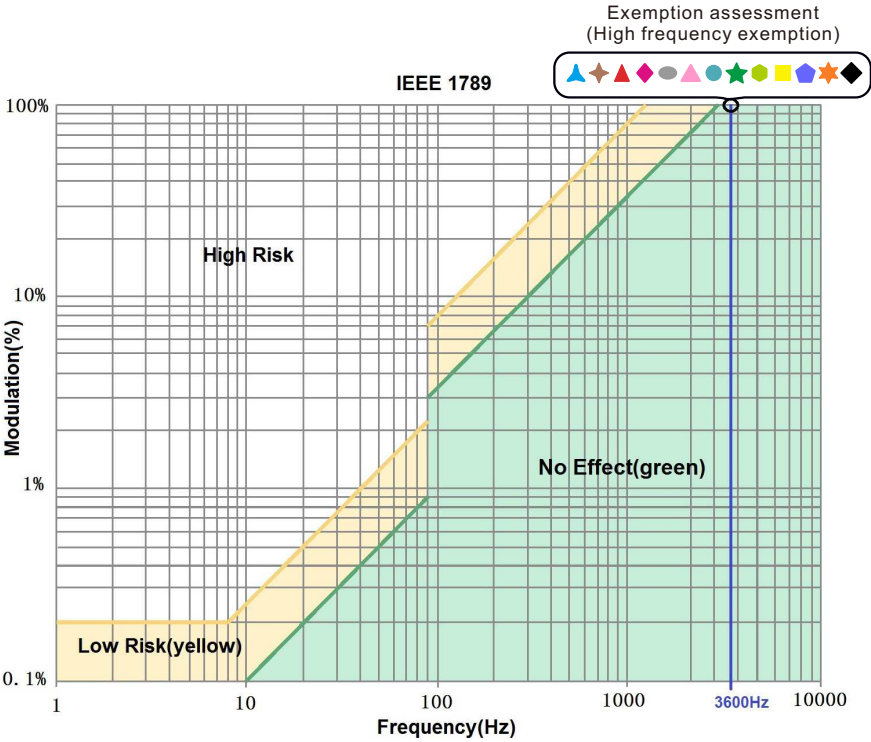
LM-100-24-G1A2

Flicker Test Form

IEEE 1789

Limit of Modulation in low risk area	
Waveform frequency of Optical output	limit (%)
$f \leq 8\text{Hz}$	0.2
$8\text{Hz} < f \leq 90\text{Hz}$	$0.025 \times f$
$90\text{Hz} < f \leq 1250\text{Hz}$	$0.08 \times f$
$f > 1250\text{Hz}$	Exemption assessment
Limit of Modulation in no effect area	
Waveform frequency of Optical output	limit (%)
$f \leq 10\text{Hz}$	0.1
$10\text{Hz} < f \leq 90\text{Hz}$	$0.01 \times f$
$90\text{Hz} < f \leq 3125\text{Hz}$	$[0.08/2.5] \times f$
$f > 3125\text{Hz}$	Exemption assessment (High frequency exemption)

- Brightness
- 0.1%
 - 1%
 - 5%
 - 10%
 - 20%
 - 30%
 - 40%
 - 50%
 - 60%
 - 70%
 - 80%
 - 90%
 - 100%



* 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.