

LED Intelligent Driver (constant voltage)

- Dimming interface: DALI 2.0, Push DIM
- Dimming range from 0-100%, LED start at 0.1% possible.
- 0-100% flicker-free ,High frequency exemption level.
- High Efficient driver: efficiency 93%, PF>0.98, THD<6%.
- In line with the EU energy efficiency ERP directive, standby power consumption < 0.5W
- 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 dismantlable end cover.
- DALI bus standard: IEC62386-101,102, 207.
- Suitable for internal lights application for I /II/III
- Up to 50000-hour life time
- 5 years warranty (Rubycon capacitor).

Flicker-free

IEEE 1789
Achieve the exemption level.

Dimmable:
0.1%-100%



SELV
RoHS

Class 2



The certification icon represents undergoing certification applications only, and final certification qualification subject to actual product.



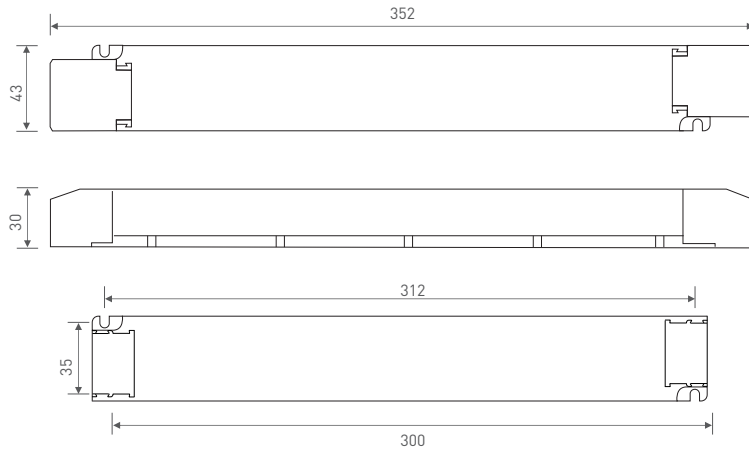
Specification

Model		LM-150-24-G1D2	LM-150-12-G1D2
OUTPUT	Output Voltage	24Vdc	12Vdc
	Output Voltage Range	24Vdc ± 0.5Vdc	12Vdc ±0.5Vdc
	Output Current	Max. 6.25A	Max. 12.5A
	Output Power	Max. 150W	
	Output Power Range	0~150W	
	Strobe Level	High frequency exemption level.	
	PWM Frequency	3600Hz	
	Dimming Range	0~100%, dimming depth: Max. 0.1%	
	Overload Power Limitation	≥102%	
Ripple & Noise	Switch ripple ≤200mV, noise ≤500mV	Switch ripple ≤200mV, noise ≤800mV	
INPUT	Dimming Interface	DALI2.0, Push DIM	
	Input Voltage	220-240Vac 200-280Vdc	
	Frequency	50/60Hz	
	Input Current	Max. 0.75A/230Vac	
	Power Factor	PF>0.98/230Vac, at full load	
	THD	<6% at 230Vac, at full load	
	Efficiency (typ.)	93%	92%
	Standby Power Loss	<0.5W	
	Inrush Current(typ.)	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: 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 ≥110°C, auto recovers.	
	Over Voltage Protection	Shut down the output when non-load voltage ≥28V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage ≥16V, 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	Enter hiccup mode if short circuit occurs, auto recovers.	
SAFETY & EMC	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	
Strobe Test Standard	IEEE 1789		
OTHERS	Dimension	352×43×30mm(L×W×H)	
	Packing	355×44×33mm(L×W×H)	
	Weight(G.W.)	430g±10g	

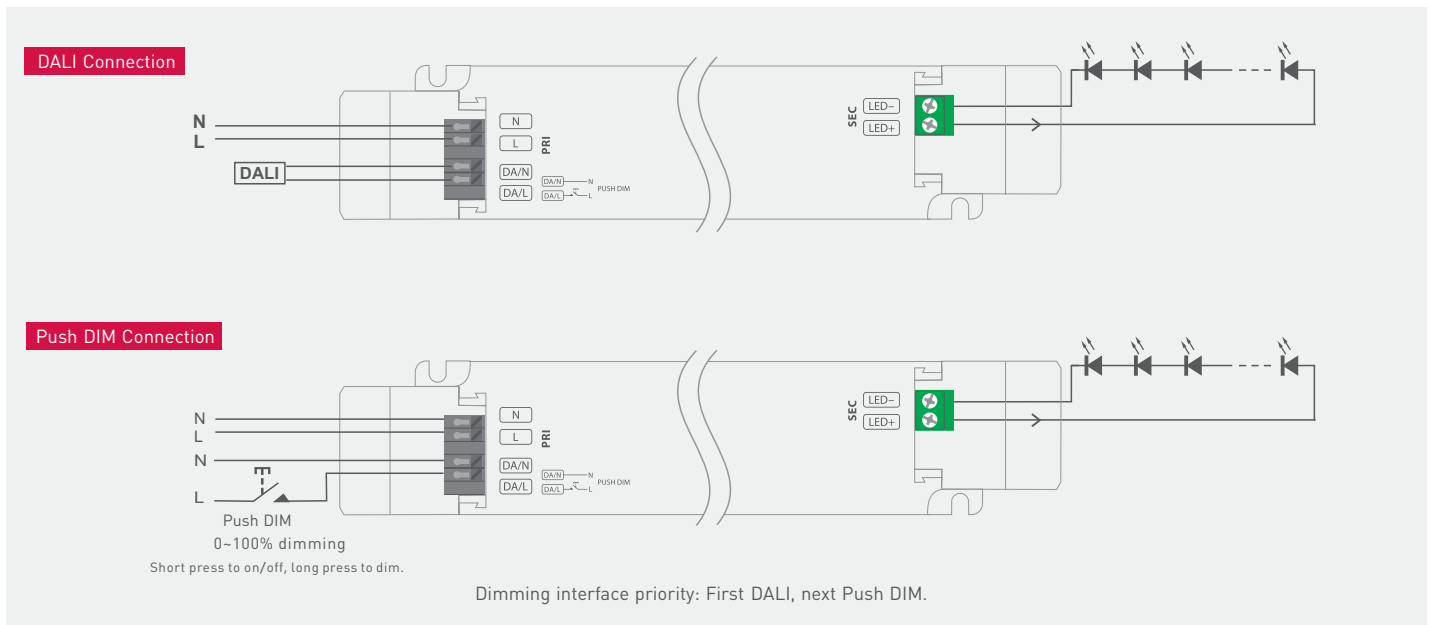
* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering).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



Push Dimming

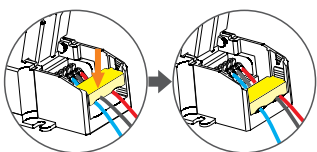


Reset switch

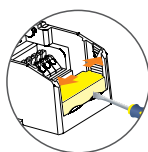
- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the brightness goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning on again.

Application of Protective Cover

Wire pressing board:

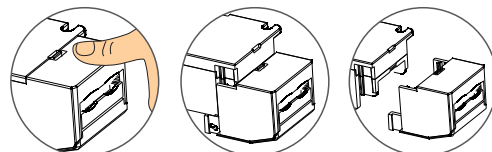


Push the wire pressing board to fix the wire.



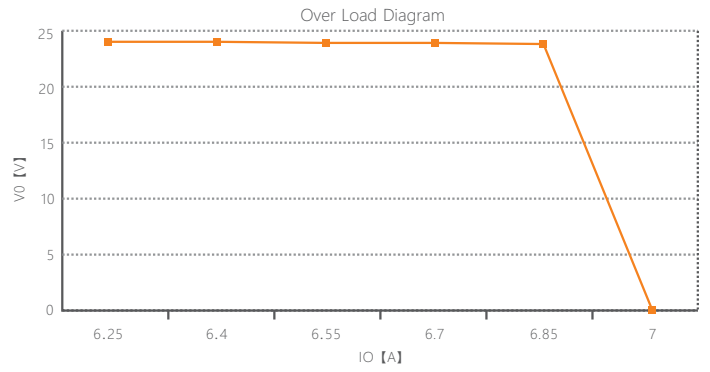
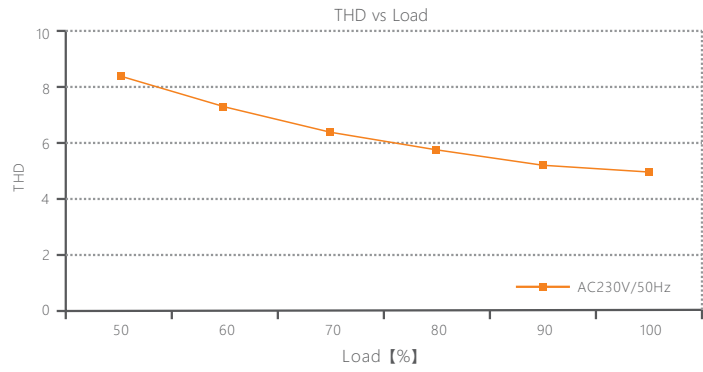
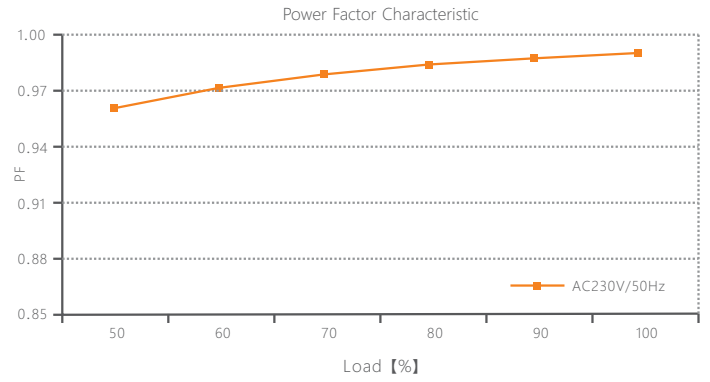
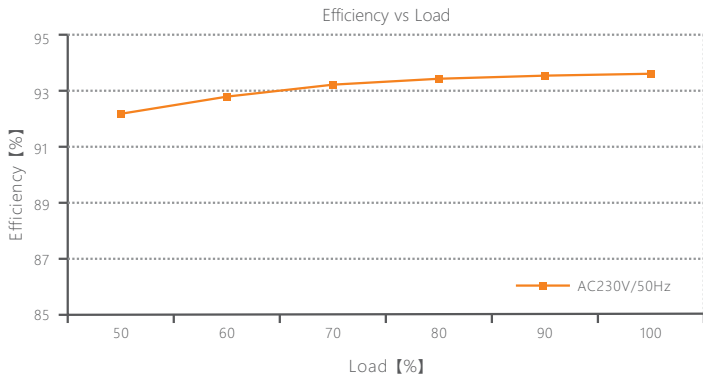
Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board.

Uninstall protective cover:

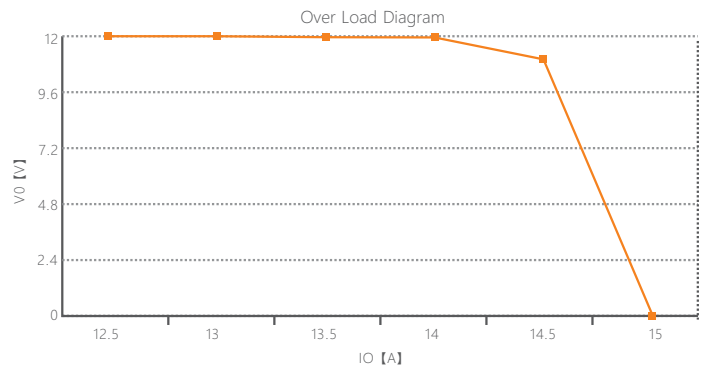
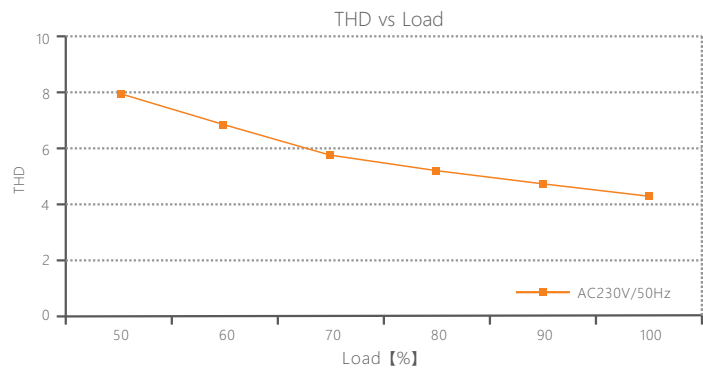
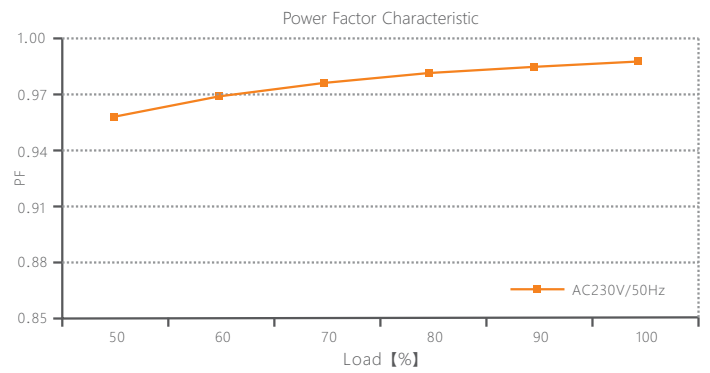
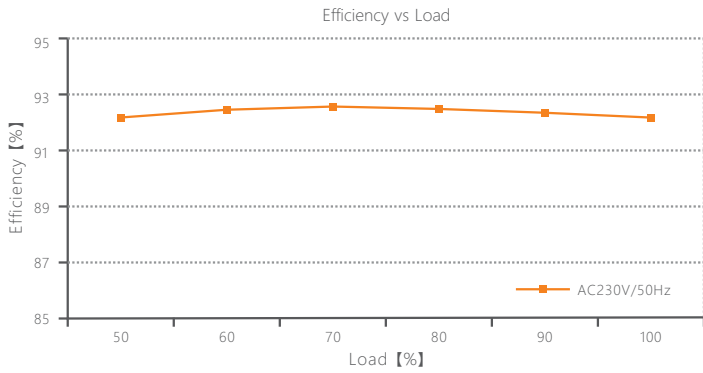


Break off the bottom left and right to remove the protective cover.

Relationship Diagrams



LM-150-24-G1D2



LM-150-12-G1D2

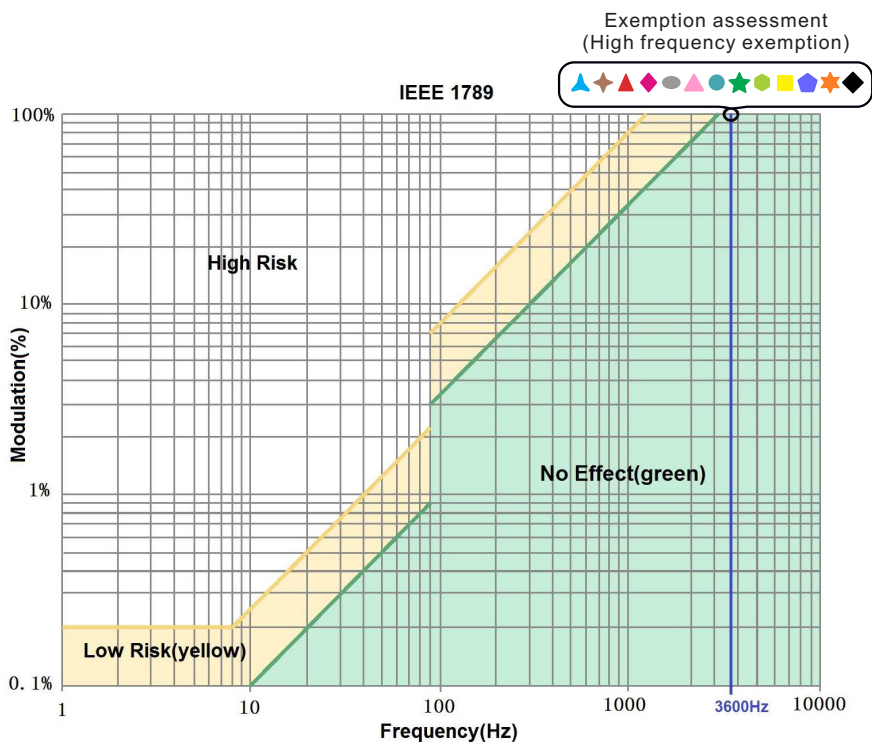
Flicker Test Form

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.

LED 智能调光驱动器 (恒压型)

- 调光接口：DALI 2.0, Push DIM
- 调光范围：0~100%，LED从0.1%开始调光
- 0-100%全程无频闪，高频豁免考核级别
- 高效电源：效率93%、PF>0.98、THD<6%
- 符合欧盟能效ERP指令，待机功耗<0.5W
- 创新的热管理技术，智能保护电源寿命
- 过温、过压、过载、短路保护，可自动恢复
- 全防护塑料外壳电源，可拆卸端盖设计
- DALI总线标准 IEC62386-101,102,207
- 适合室内 I、II、III类灯具应用
- 高达50,000小时的额定寿命
- 质保5年（采用红宝石电容）

无频闪

IEEE 1789
高频豁免级别

Dimmable:
0.1%-100%



SELV
RoHS

Class 2



(认证图标仅代表产品正在进行这一系列的认证申请，认证资质以产品实物为准)



技术参数

型号	LM-150-24-G1D2	LM-150-12-G1D2	
输出	输出电压	24Vdc	12Vdc
	输出电压范围	24Vdc ± 0.5Vdc	12Vdc ± 0.5Vdc
	输出电流	Max. 6.25A	Max. 12.5A
	输出功率	Max. 150W	
	输出功率范围	0~150W	
	频闪级别	高频豁免级别	
	调光范围	0~100%，调光深度: 0.1%	
	过功率限制	≥102%	
	纹波与噪声	开关纹波≤200mV，噪声≤500mV	开关纹波≤200mV，噪声≤800mV
PWM频率	3600Hz		
输入	调光接口	DALI2.0, Push DIM	
	输入电压	220-240Vac 200-280Vdc	
	频率范围	50/60Hz	
	输入电流	Max. 0.75A/230Vac	
	功率因数	PF>0.98/230Vac (满载)	
	谐波THD	230Vac@THD<6% (满载)	
	效率(Typ.)	93%	92%
	待机功耗	<0.5W	
	浪涌电流	冷启动45A/230Vac	
	抗浪涌	L-N: 2KV	
漏电流	Max. 0.5mA		
环境	工作温度	ta: -20 ~ 50°C tc: 85°C	
	工作湿度	20 ~ 95%RH, 无冷凝	
	储存温度 湿度	-40 ~ 80°C, 10~95%RH	
	温度系数	±0.03%/°C(0-50°C)	
	耐震动	10-500HZ, 2G 12分钟/周期, X,Y,Z轴各72分钟。	
保护	过温保护	根据PCB温度超标情况(≥110°C), 智能调节电流输出或关闭, 可自动恢复。	
	过压保护	空载电压≥28V, 关闭输出, 可自动恢复。	空载电压≥16V, 关闭输出, 可自动恢复。
	过载保护	负载电流≥102%, 关闭输出, 可自动恢复。	
	短路保护	输出线路短路进入打嗝模式, 可自动恢复。	
安规和电磁规格	耐压	输入对输出: 3750Vac	
	绝缘阻抗	输入对输出: 100MΩ/500VDC/25°C/70%RH	
	安全规范	IEC/EN61347-1, IEC/EN61347-2-13	
	电磁兼容发射	EN55015, EN61000-3-2 Class C, IEC61000-3-3	
	电磁兼容抗扰度	EN61000-4-2,3,4,5,6,8,11, EN61547	
	频闪测试标准	IEEE 1789	
其他	产品尺寸	352×43×30mm[L×W×H]	
	包装尺寸	355×44×33mm[L×W×H]	
	产品重量(G.W)	430g±10g	

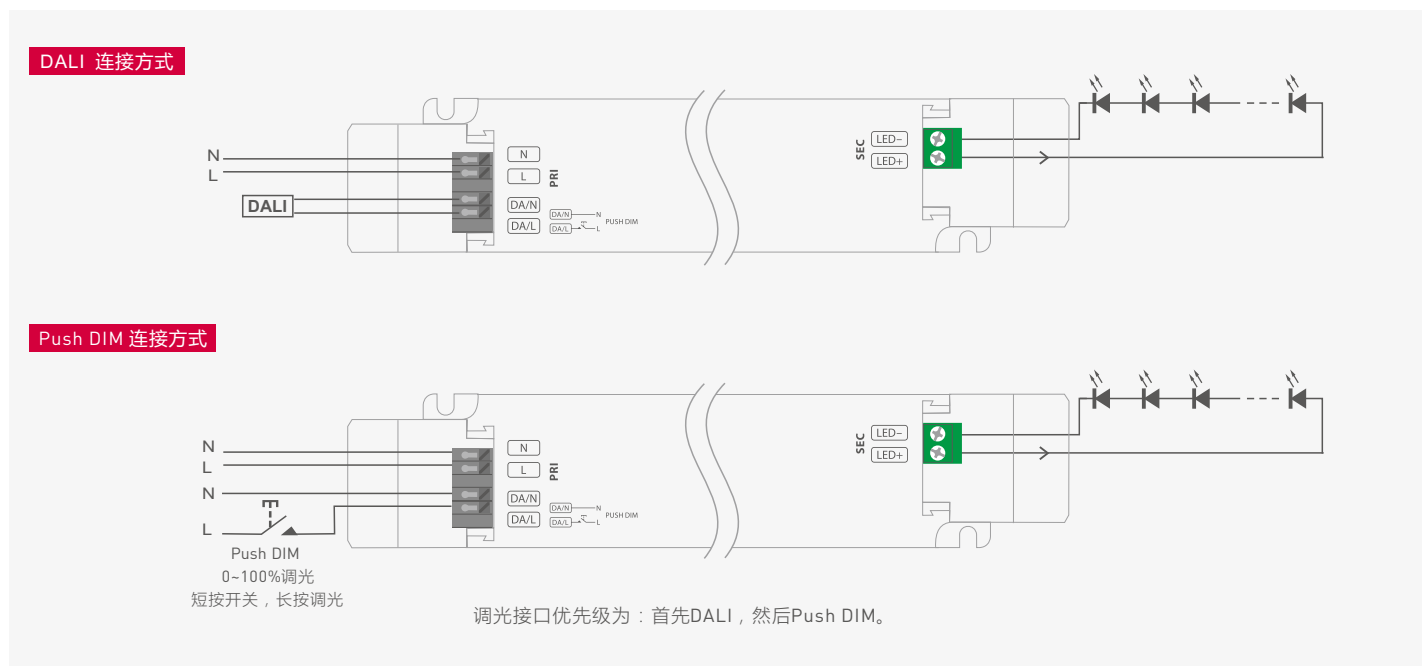
* 本款驱动器适合连接电阻限流的LED灯具（如LED灯条）。如果连接内置恒流IC限流的灯具，会产生几十倍的瞬间浪涌电流，导致驱动器会执行过载保护（打嗝频闪）。下单时这类内置恒流IC限流的灯具需要注明（如MR16灯杯、地埋灯、洗墙灯、恒流硬灯条等），以便烧写特殊程序。

尺寸图

单位：mm



连接应用图



Push Dimming

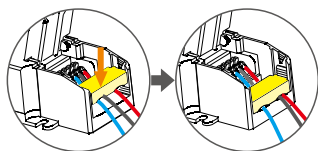


复位开关

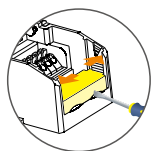
- 开关控制: 短按.
- 无级调光: 长按.
- 每隔一次长按, 明暗度会向相反方向调整.
- 调光记忆: 当再次开关时, 灯光会回到先前调整的亮度水平.

保护盖应用图

压线板

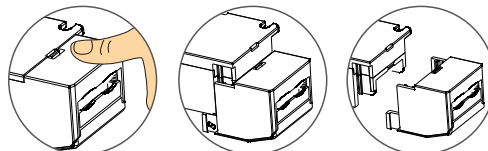


向下推压线板, 可固定住线。



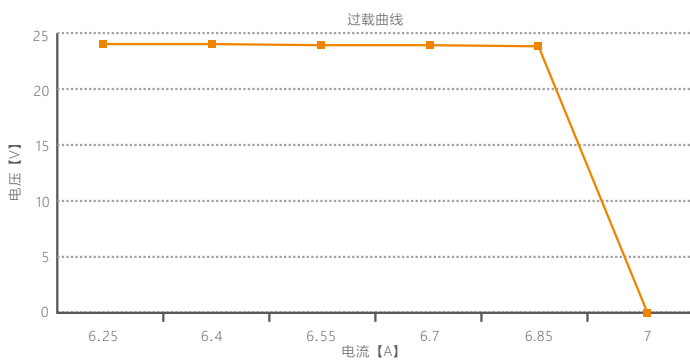
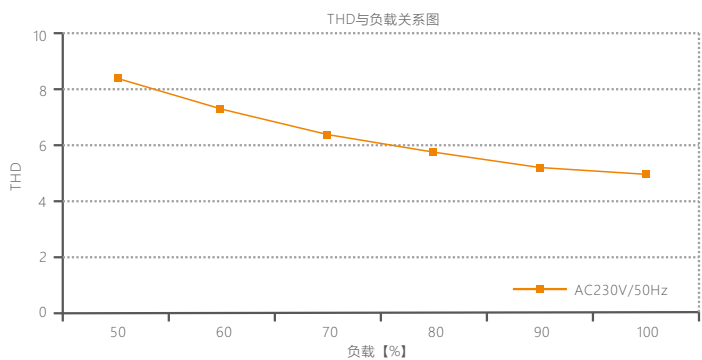
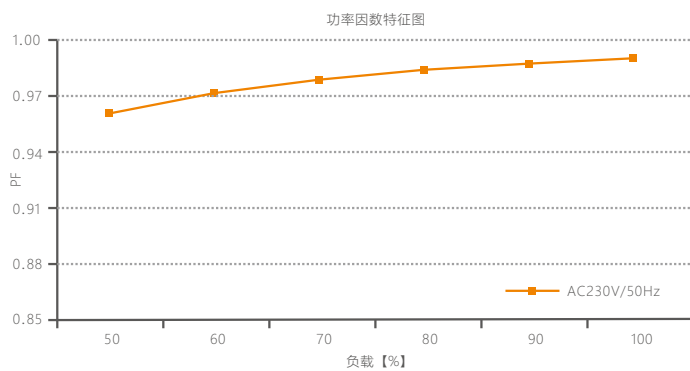
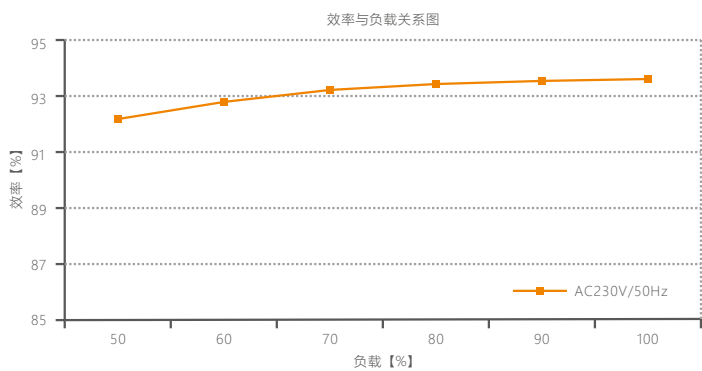
向外推侧板的同时, 用工具撬即可拆下压线板。

保护盖的拆装

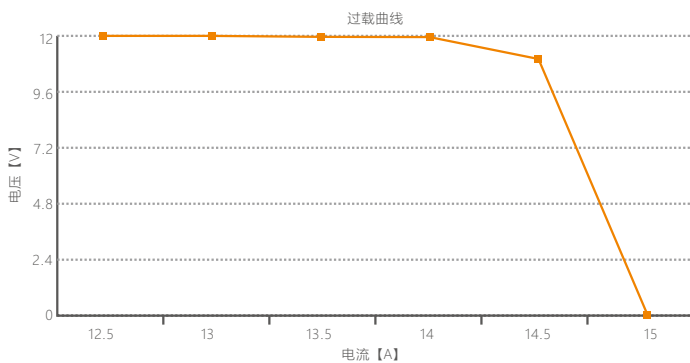
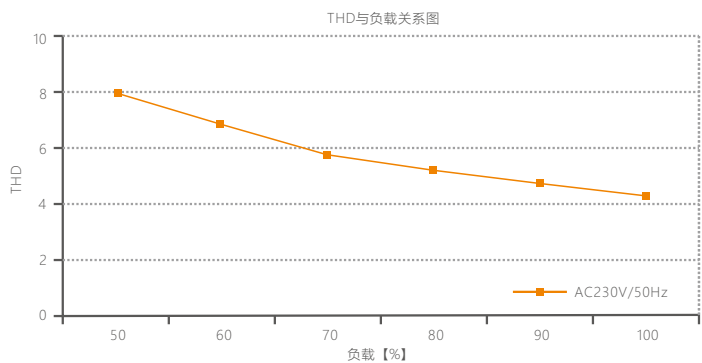
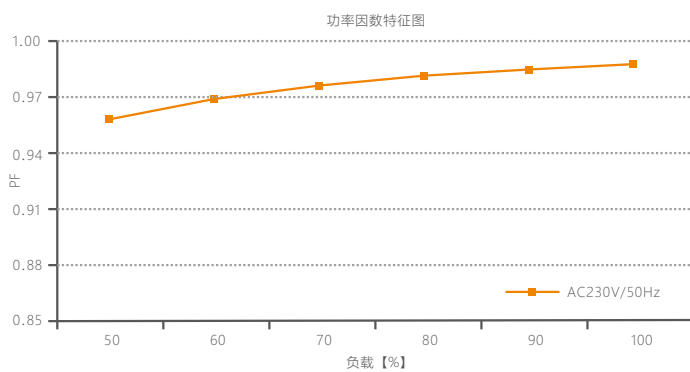
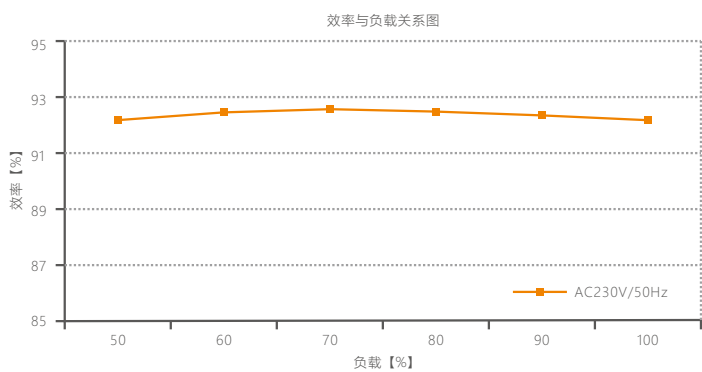


在底部左右掰动, 即可将保护盖拆下。

关系图表



LM-150-24-G1D2



LM-150-12-G1D2

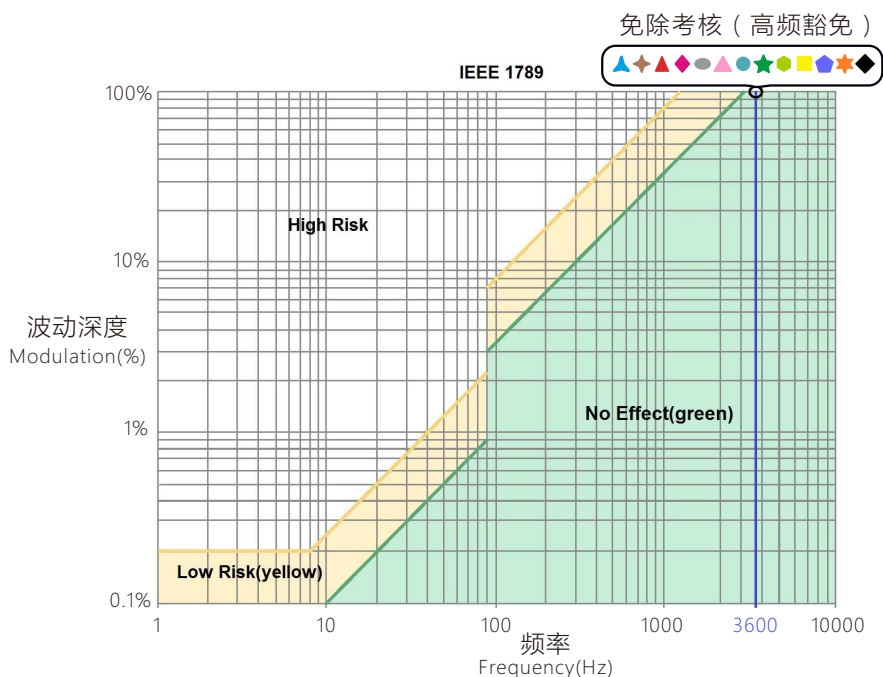
频闪测试表

IEEE 1789

低风险区域 (Low Risk) 的波动深度 (Modulation) 限值	
光输出波形频率 f	限值 (%)
$f \leq 8\text{Hz}$	0.2
$8\text{Hz} < f \leq 90\text{Hz}$	$0.025 \times f$
$90\text{Hz} < f \leq 1250\text{Hz}$	$0.08 \times f$
$f > 1250\text{Hz}$	免除考核
无风险区域 (No Effect) 的波动深度 (Modulation) 限值	
光输出波形频率 f	限值 (%)
$f \leq 10\text{Hz}$	0.1
$10\text{Hz} < f \leq 90\text{Hz}$	$0.01 \times f$
$90\text{Hz} < f \leq 3125\text{Hz}$	$(0.08/2.5) \times f$
$f > 3125\text{Hz}$	免除考核 (高频豁免)

亮度

- ▲ 0.1%
- ◆ 1%
- ▲ 5%
- ◆ 10%
- 20%
- 30%
- 40%
- ★ 50%
- 60%
- 70%
- 80%
- ★ 90%
- ◆ 100%



* 本说明书的内容如有变更, 恕不另行通知。若内容与您使用的功能有所不同, 则以实物为准。如有疑问, 请与供应商联系。