

LED Intelligent Driver (constant voltage)

- Dimming interface: DALI, Push DIM
- With soft-on and fade in function, visual more comfortable.
- Dimming range from 0-100%, LED start at 0.1% possible.
- High frequency exemption level.
- DALI dimming curves are available in linear and logarithmic curve.
- DALI bus standard IEC62386-101, 102, 207.
- 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 50,000-hour life time.
- 5 years warranty (Rubycon capacitor).



Flicker-free
IEEE 1789
High frequency exemption level

Dimmable:
0.1%-100%



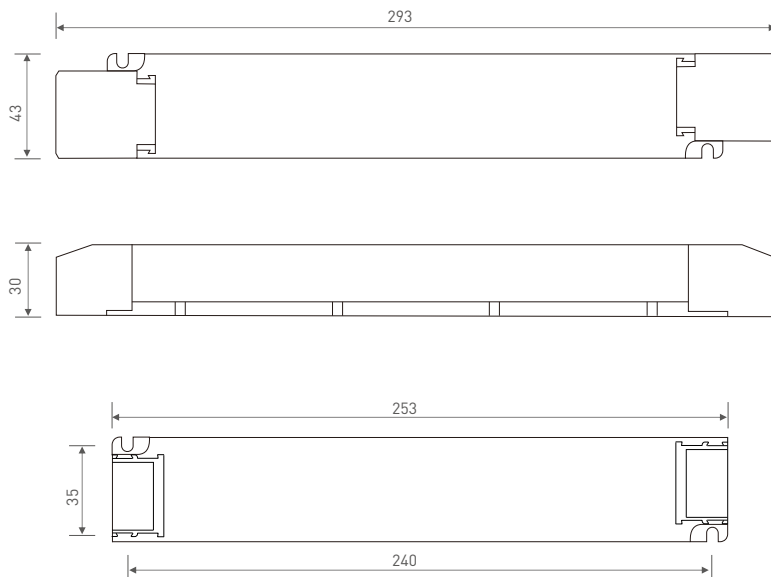
Specification

Model		LM-75-12-G1D2		LM-75-24-G1D2	LM-100-24-G1D2
OUTPUT	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	
	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	DALI, 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%	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				
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]			
	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 ≥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-O/P: 3750Vac			
	Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH			
	Safety Standards	CCC	China	GB19510.1, GB19510.14	
		CB	CB member states	IEC61347-1, IEC61347-2-13	
		RCM	Australia	AS 61347-1, AS 61347-2-13	
		UKCA	Britain	BS EN 61347-2-13:2014+A1:2017, BS EN 61347-1:2015+A1:2021	
		TUV	Germany	EN61347-1, EN61347-2-13, En62493	
		CE	European Union	EN61347-1, EN61347-2-13, En62384	
	EMC Emission	CCC	China	GB/T17743, GB17625.1	
		RCM	Australia	En55015, EN61000-3-2, EN61000-3-3, En61547	
		UKCA	Britain	BS EN IEC 55015:2019/A11:2020, BS EN 61547:2009, BS EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A1:2019	
		CE	European Union	En55015, EN61000-3-2, EN61000-3-3, En61547	
	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 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.

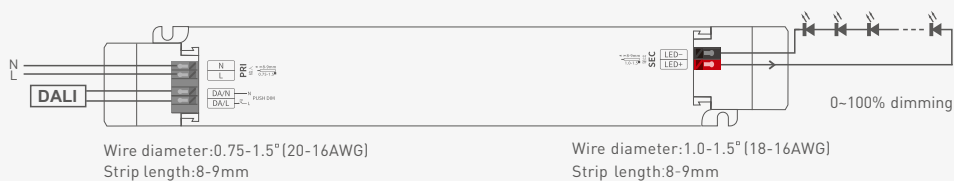
Dimensions

Unit: mm



Wiring Diagram

DALI Connection



Push DIM Connection



Push DIM

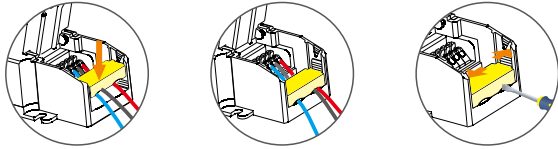


Reset switch

- 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

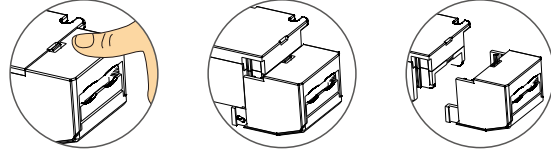
Wire pressing board:



Push the wire pressing board to fix the wires.

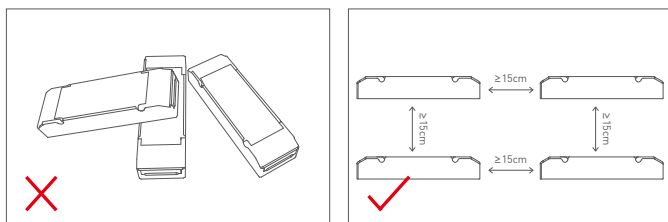
Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board.

Uninstall protective cover:

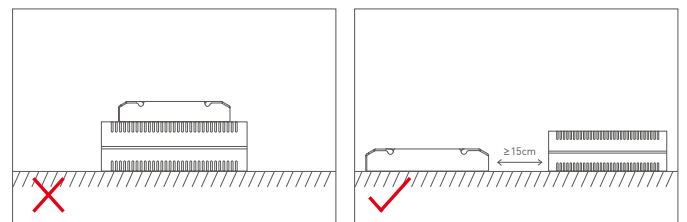


Break off the bottom left and right to remove the protective cover.

Installation Precautions



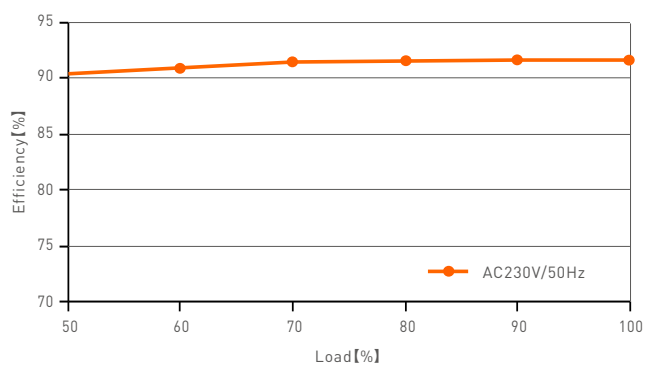
Please do not stack the products. The distance between two products should be $\geq 15\text{cm}$ so as not to affect heat dissipation and the lifespan of the products.



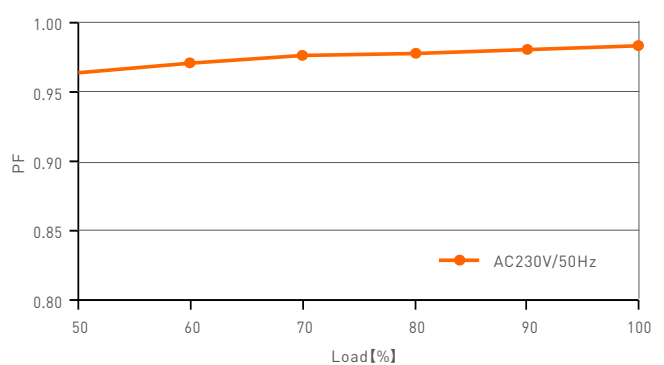
Please not place the products on LED drivers. The distance between the product and the driver should be $\geq 15\text{cm}$ so as not to affect heat dissipation and shorten the lifespan of the products.

Relationship Diagrams

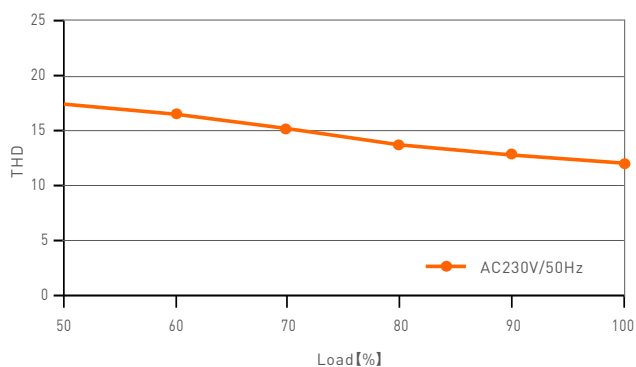
Efficiency vs Load



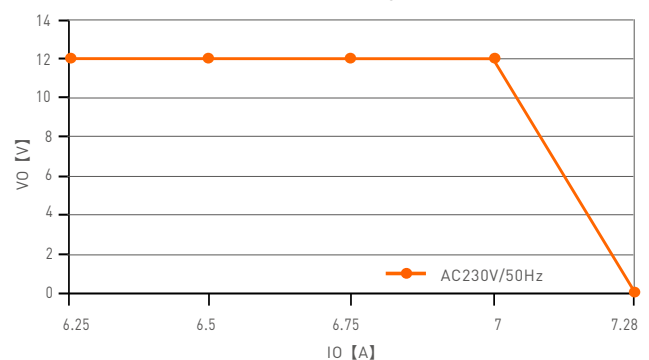
Power Factor Characteristic



THD vs Load

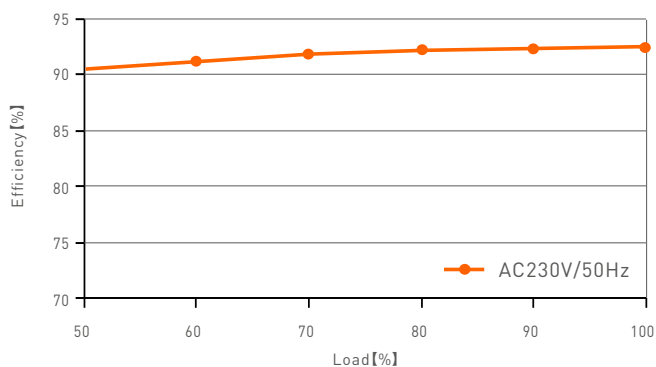


Over Load Diagram

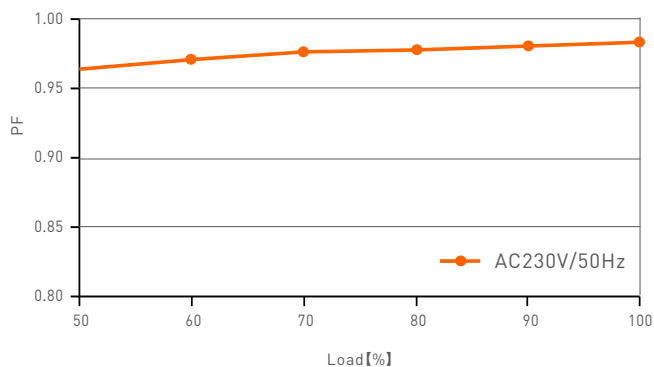


LM-75-12-G1D2

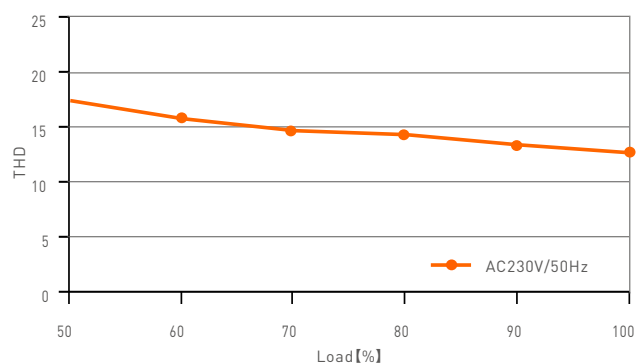
Efficiency vs Load



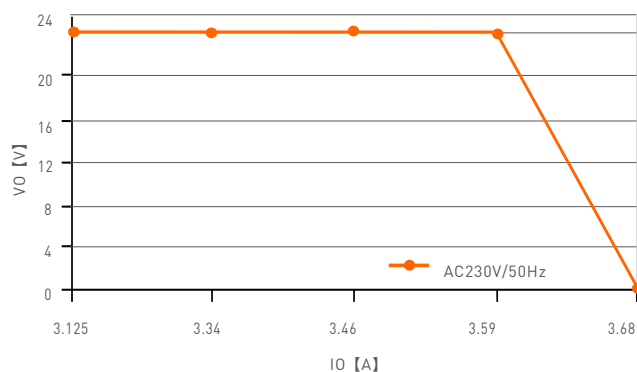
Power Factor Characteristic



THD vs Load

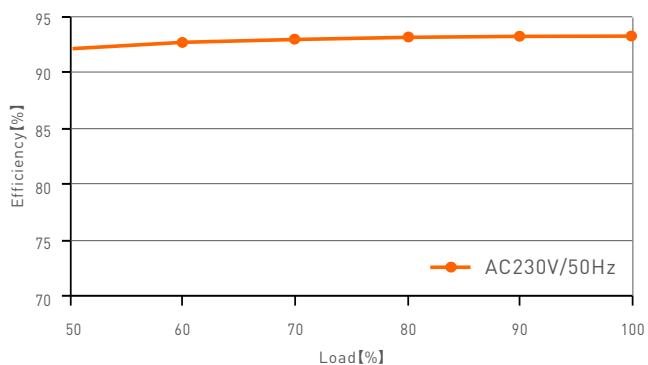


Over Load Diagram

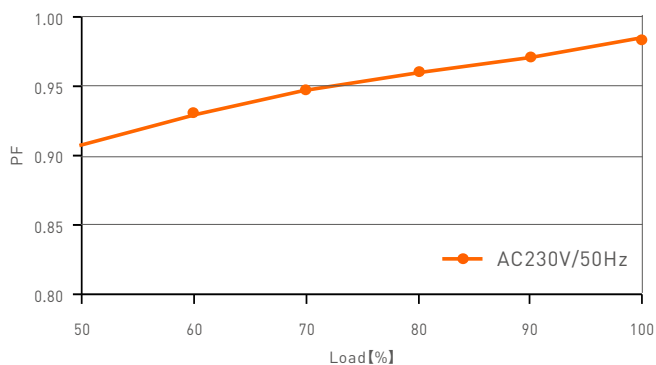


LM-75-24-G1D2

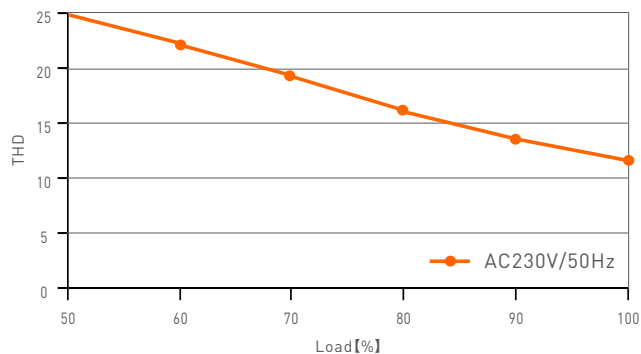
Efficiency vs Load



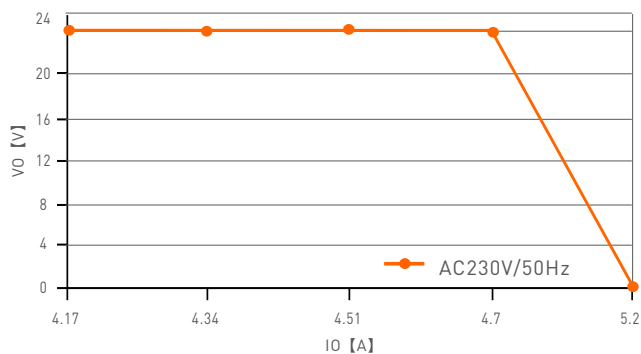
Power Factor Characteristic



THD vs Load

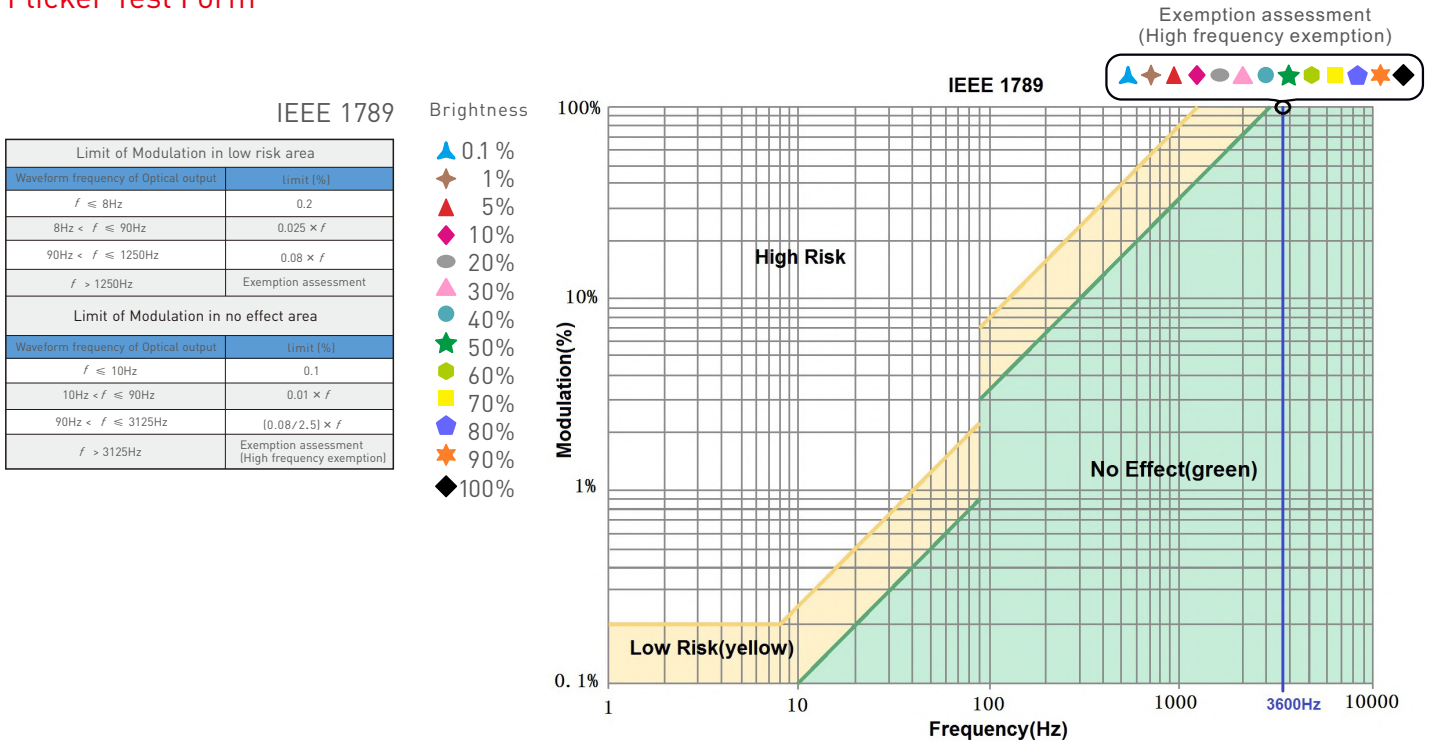


Over Load Diagram



LM-100-24-G1D2

Flicker Test Form



Attentions

- Products shall be installed by qualified professionals.
 - LTECH products are non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
 - Good heat dissipation will extend the working life of products. Please ensure good ventilation.
 - Please check if the working voltage used complies with the parameter requirements of products.
 - The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
 - Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
 - If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.
- * This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

- Warranty periods from the date of delivery: 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

Update Log

Version	Updated Time	Update Content	Updated by
A0	2019.03.12	Original version	Huang Yunting
A1	2019.06.25	Voltage changed from 200-240 to 220-240	Huang Yunting
A2	2021.12.10	Update product silk screen	Liu Weili

LED智能调光驱动器 (恒压型)

- 调光接口：DALI, Push DIM
- 调光范围：0~100%，LED从0.1%开始调光
- 带软启动渐亮功能，让人眼视觉更舒适
- DALI调光曲线可选线性或对数曲线
- DALI总线标准 IEC62386-101,102,207
- 高频豁免考核级别
- 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
- 全防护塑料外壳电源，可拆卸端盖设计
- 符合SELV安全特低电压标准
- 适合室内 I、II、III类灯具应用
- 高达50,000小时的额定寿命
- 5年保修期 (采用红宝石电容)



无频闪
IEEE 1789
高频豁免考核级别

Dimmable:
0.1%-100%



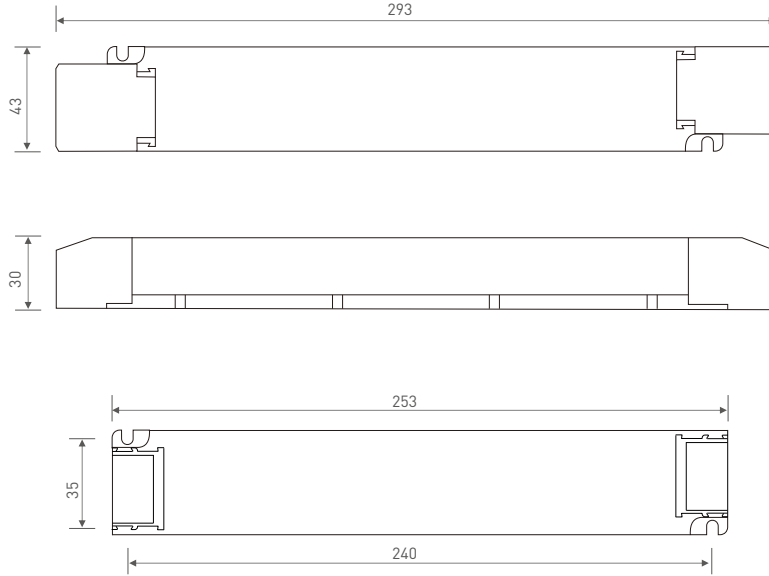
技术参数

型号		LM-75-12-G1D2		LM-75-24-G1D2		LM-100-24-G1D2	
输出	输出电压	12Vdc		24Vdc			
	输出电压范围	12Vdc ± 0.5Vdc		24Vdc ± 0.5Vdc			
	输出电流	Max. 6.25A		Max. 3.125A		Max. 4.17A	
	输出功率	Max. 75W				Max. 100W	
	输出功率范围	0~75W				0~100W	
	频闪级别	高频豁免考核级别					
	调光范围	0~100%，调光深度: 0.1%					
	过功率限制	≥102%					
	纹波与噪声	≤200mV		≤300mV			
PWM频率	3600Hz						
输入	调光接口	DALI, Push DIM					
	输入电压	220-240Vac					
	频率范围	50/60Hz					
	输入电流	Max. 0.4A/230Vac				Max. 0.5A/230Vac	
	功率因素	PF>0.97/230Vac (满载)				PF>0.98/230Vac (满载)	
	谐波THD	230Vac@THD≤14% (满载)				230Vac@THD≤12%(满载)	
	效率(Typ.)	91%		92%		93%	
	浪涌电流	冷启动30A/230Vac				冷启动45.2A/230Vac	
	抗浪涌	L-N: 2KV					
漏电流	Max. 0.5mA						
环境	工作温度	ta: -20 ~ 50°C tc: 80°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)					
	耐振动	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≥13V, 关闭输出, 异常排除后上电恢复		空载电压≥26V, 关闭输出, 异常排除后上电恢复			
	过载保护	负载电流≥102%, 关闭输出，异常排除自动恢复					
	短路保护	输出线路短路自动关闭，检测正常后自动恢复					
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	CCC	中国	GB19510.1, GB19510.14			
		CB	CB成员国	IEC61347-1, IEC61347-2-13			
		RCM	澳洲	AS 61347-1, AS 61347-2-13			
		UKCA	英国	BS EN 61347-2-13:2014+A1:2017, BS EN 61347-1:2015+A1:2021			
		TUV	德国	EN61347-1, EN61347-2-13, EN62493			
		CE	欧盟	EN61347-1, EN61347-2-13, EN62384			
	电磁兼容发射	CCC	中国	GB/T17743, GB17625.1			
		RCM	澳洲	EN55015, EN61000-3-2, EN61000-3-3 EN61547			
		UKCA	英国	BS EN IEC 55015:2019/A11:2020, BS EN 61547:2009, BS EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A1:2019			
		CE	欧盟	EN55015, EN61000-3-2, EN61000-3-3, EN61547			
	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	293×43×30mm(L×W×H)					
	包装尺寸	296×44×33mm(L×W×H)					
	产品重量(G.W)	300g±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。

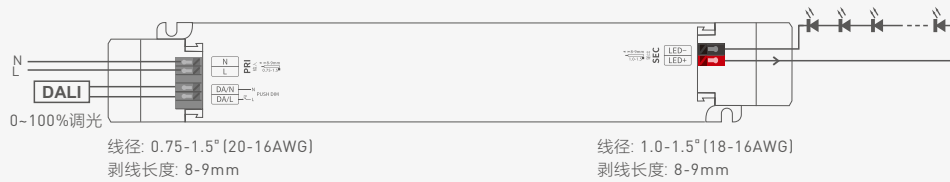
尺寸图

单位: mm



连接应用图

DALI 连接方式



Push DIM 连接方式



Push DIM

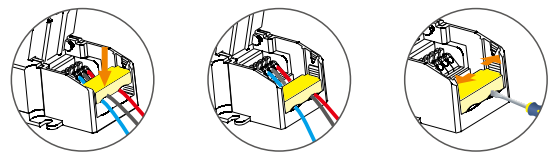


复位开关

- 开关控制: 短按.
- 无级调光: 长按.
- 每隔一次长按, 亮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.

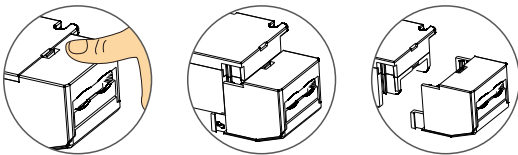
保护盖应用图

压线板



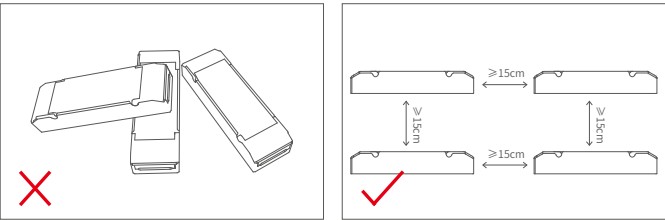
向下推压线板，可固定住线。
向外推侧板的同时，
用工具撬即可拆下压线板。

保护盖的拆装

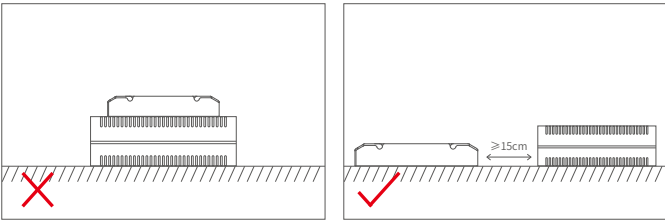


在底部左右掰动，即可将保护盖拆下。

安装注意事项

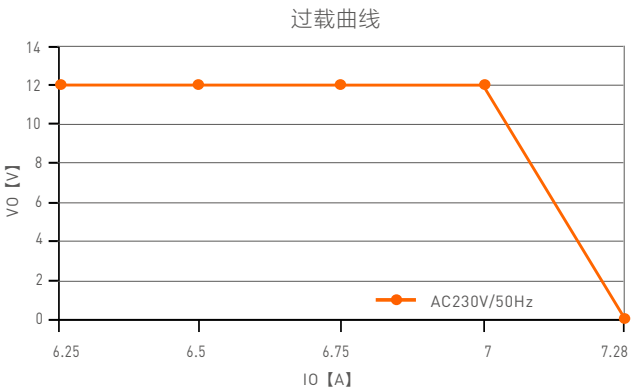
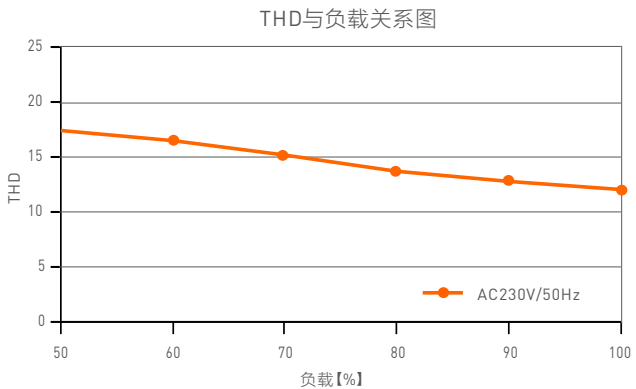
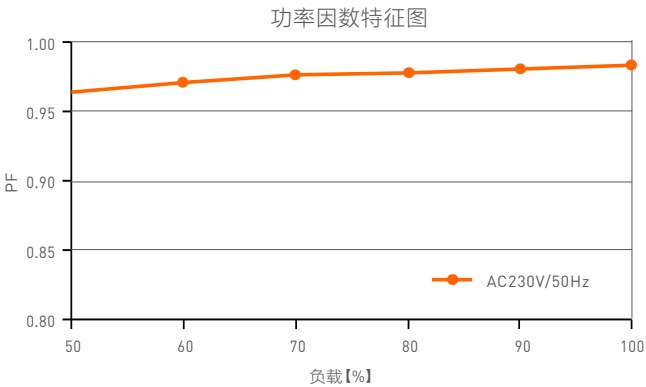
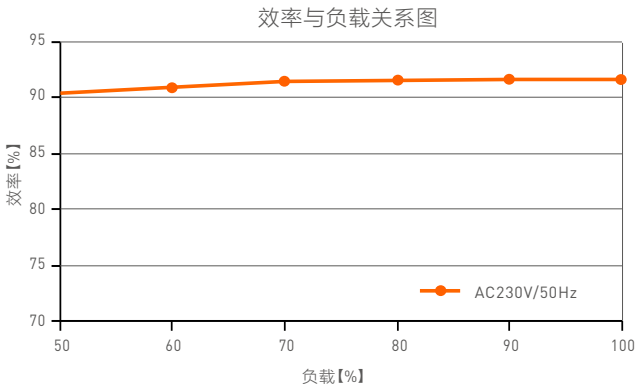


请勿将产品堆叠摆放，产品与产品间隔距离应 $\geq 15\text{cm}$ ，避免影响产品散热和使用寿命。

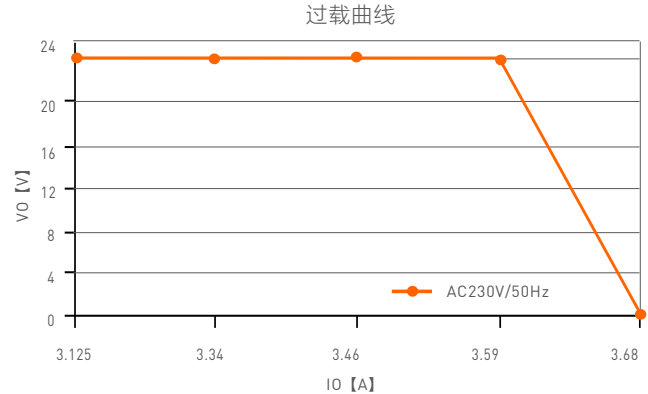
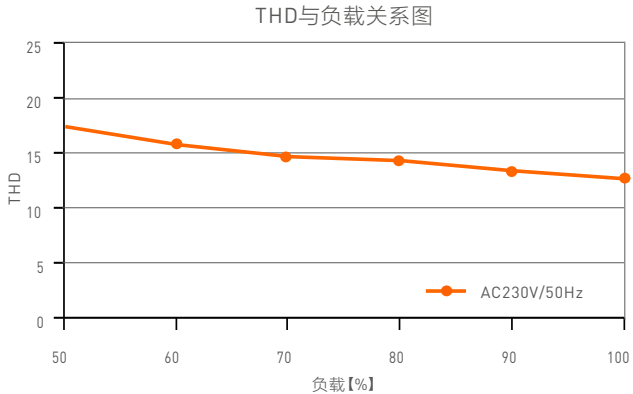
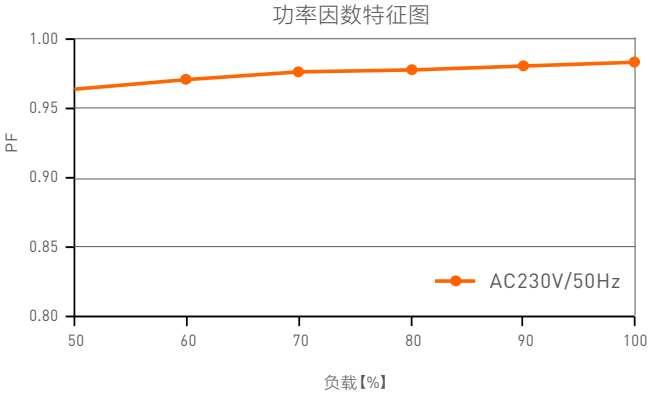
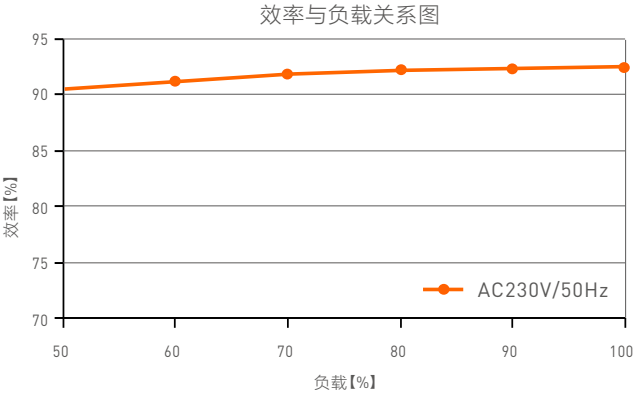


请勿将产品置于电源上方，与电源间隔距离应 $\geq 15\text{cm}$ ，避免影响产品散热而减少使用寿命。

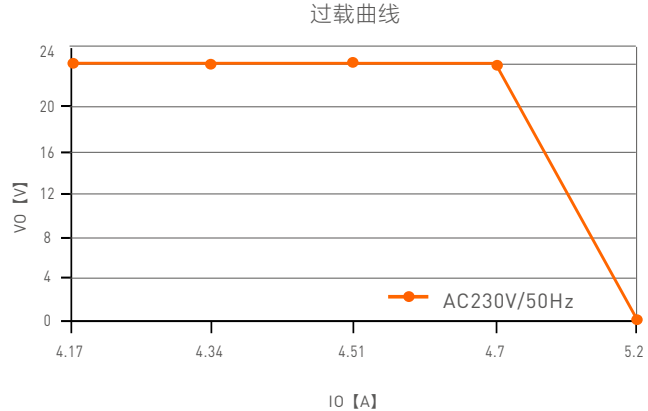
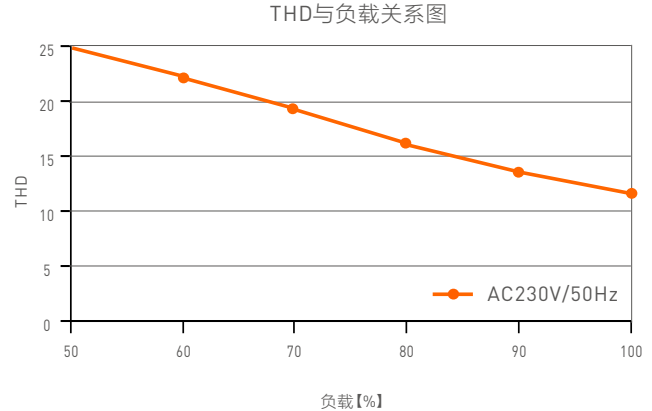
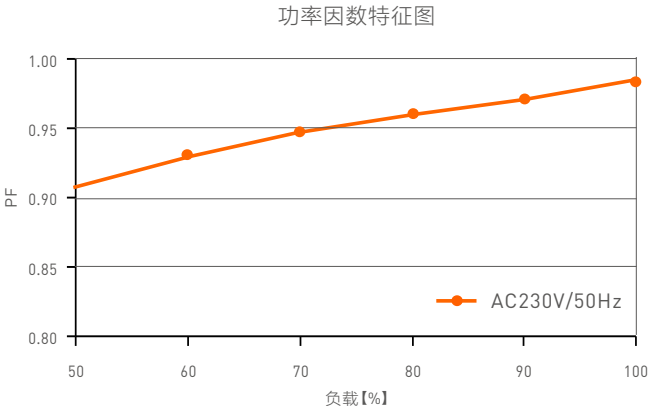
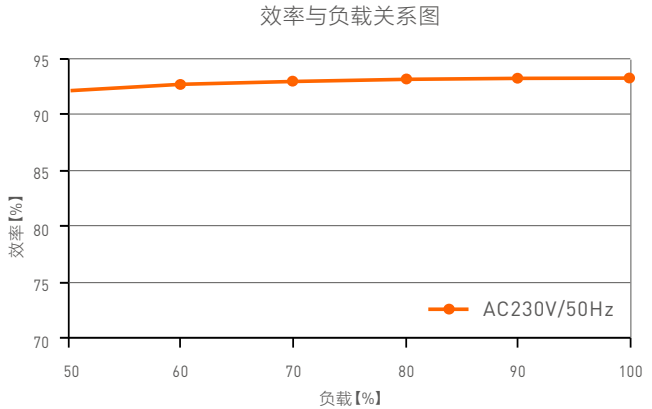
关系图表



LM-75-12-G1D2

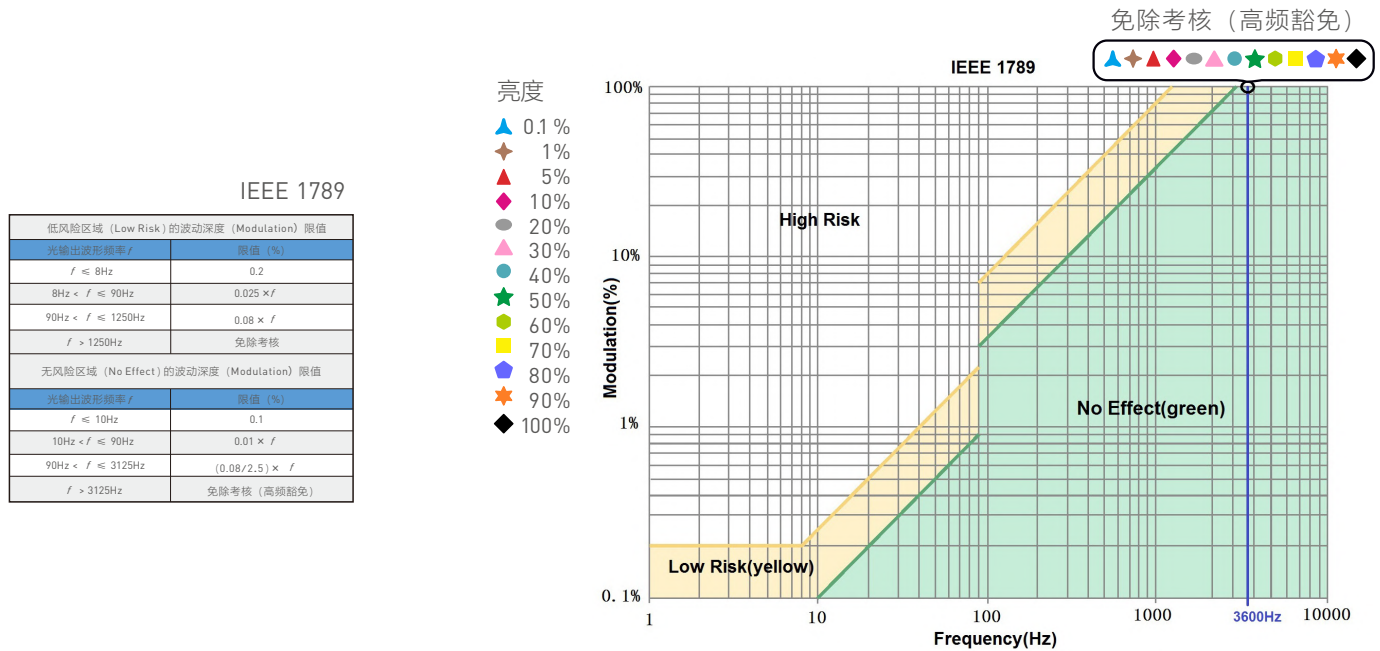


LM-75-24-G1D2



LM-100-24-G1D2

频闪测试表



注意事项

- 请由具有专业资格的人员进行调试安装;
- 雷特产品 (专有型号除外) 不能防水, 需避免日晒雨淋, 如安装在户外, 请用防水箱;
- 良好的散热条件会延长产品的使用寿命, 请把产品安装在通风良好的环境;
- 请检查使用的工作电压是否符合产品的参数要求;
- 使用的电线直径大小必须能足够负载连接的LED灯具, 并确保接线牢固;
- 通电调试前, 应确保所有接线正确, 以避免因接线错误而导致灯具损坏;
- 如果发生故障, 请勿私自维修; 如果有疑问, 请联系供应商。

* 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, 欢迎向我司授权的经销商咨询。

保修条例

- 自出厂之日起保修服务期为5年。
- 在保修服务期内出现产品质量问题雷特将给予免费修理或更换服务。

非保修条例:

属下列情况不在免费保修或更换服务范围之内:

- 已经超出保修服务期;
- 过高电压、超负载、操作不当等人为造成的损坏;
- 产品外形严重损坏或变形;
- 自然灾害以及人力不可抗拒原因造成的损坏;
- 产品保修标签和产品唯一条形码损坏;
- 无雷特签订的合同或发票凭证。

1. 修理或更换是雷特对客户的唯一补救措施。雷特不承担任何附带引起的损害赔偿, 除非在适用法律范围之内。
2. 雷特享有修正或调整本保修条款的权利, 并以书面形式发布为准。

更新日志

版本	更改日期	更改内容	更改人
A0	2019.03.12	正稿	黄韵婷
A1	2019.06.25	电压由200-240改为220-240	黄韵婷
A2	2021.12.10	更新产品丝印	刘伟丽