

2021年美耐斯光电有限公司

MYNICE[®] | **2021**
美耐斯 | **产品手册**
PRODUCT MANUALS

高端LED标识灯箱光源领导者
High-end signage lighting source leader



深圳市美耐斯光电有限公司

地址:深圳市宝安区石岩街道爱群路同富裕工业区4-8栋
Address: Block4-8#TongFuyu Industrial Park, Aiqun Road,
Shiyan Street, Baoan District, Shenzhen, China 518108
电话/Tel: 0755-29572379 传真/Fax: 0755-27626366
网址/Net: <https://www.myniceled.com>
企业邮箱/Mail: info@myniceled.com

公司简介

COMPANY PROFILE



深圳市美耐斯光电是一家致力于LED广告标识灯箱照明及LED灯带线性照明, LED道具展示照明的研发, 生产, 销售, 服务为一体的国家级高新技术企业和广东省高新技术企业。是中国LED广告标识灯箱照明和LED灯带线性照明, LED道具展示照明的领跑者。是中国LED导向标识载体国家标准制定单位。深圳市美耐斯光电拥有遍布全国一二三四线城市的安装, 售后, 服务团队。公司推行“全国联保, 售后无忧”的售后服务体系。公司成立于2006年, 目前拥有深圳美耐斯总部工厂东莞美耐斯分厂, 缅甸仰光美耐斯海外工厂。合计32000平方米标准化厂房和800多名熟练生产技术人员。目前公司拥有“美耐斯”LED标识灯箱照明, LED道具展示照明和“优耐斯”LED灯条线性照明两大品牌。产品主要涵盖范围: LED标识灯箱照明, LED灯带线性照明, LED道具展示照明, LED电源等领域。目前是国内规模最大, 专业性最强的公司之一。

开厂至今, 公司坚持以品质作为生存之本, 研发创新为发展之道。公司先后通过了ISO9001国际质量体系认证 ISO14000环境管理体系等认证。公司研发实力雄厚, 目前公司拥有50多人专业研发团队, 并且核心工程研发团队均来自于国际同行业知名专家和国内经验丰富的LED技术骨干。公司拥有现代化的原材料检验室、工程样品室、LED除湿烘烤室, 对所有原物料进行百分百检验。同时拥有五个高规格的国际实验室, 拥有一套较为完善的检测设备, 在业界处于领先水平。同时, 公司又引进了世界领先的LED全自动封装生产线及LED广告标识灯箱照明、LED灯带线性照明产品自动化生产线。质量稳定, 产能强大, 交货能力强。能为客户提供优质产品和优质的服务。公司生产能力强, 交货速度快。目前, 公司注塑模组每月生产量1000万片以上, 软灯条100万米以上, 硬灯条50万米以上。

Mynice optoelectronics CO., LTD is a national high-tech enterprise and a high-tech enterprise in Guangdong province, which is committed to the development, production, sales and service of LED advertisement signage light box lighting, LED light strips linear lighting and LED prop display lighting. It is the leader of China LED advertisement signage light box lighting and LED strips with linear lighting, LED prop display lighting. It is the national standard maker of LED guide signage carrier in China. Mynice optoelectronic co., LTD has installation, after-sales and service teams all over the first-second-third-tier cities in China. The company optoelectronic CO., LTD has installation, after-sales and service teams all over the first-second-third-tier cities in China. The company promotes the after - sale service system called "national warranty, after - sale worry-free". The company built in 2006 currently owns Shenzhen Mynice headquarters factory, Dongguan Mynice branch factory, and Mynice overseas factory in Yangon, Myanmar. A total of 32,000 square meters of standardized workshop and more than 800 skilled production staff. At present, the company has two brands including "MYNICE" LED signage light box lighting, LED prop display lighting and "YOUNICE" LED strip linear lighting. Products mainly cover the business scope: LED signage light box lighting, LED lights with linear lighting, LED props display lighting, LED power supply and other fields. Nowadays, it is one of the largest and most professional companies in China.

Up to now, the company insists on taking quality as the basis of survival and R&D innovation as the way of development. The company has passed the "ISO9001 international quality system certification", "ISO14000 environmental management system certification". The company has a strong R&D team with nearly 50 members, and the core engineering R&D team are from the international industry well-known experts and domestic experienced LED technical backbone. The company has a modern raw material inspection room, engineering sample room, LED dehumidification and baking room, all raw materials 100% inspection. Company has five high-profile international laboratories, at the same time, has a relatively perfect testing equipment. At the same time, the company has introduced the world's leading LED fully automatic packaging production line and LED advertising signage light box lighting, LED lights strips linear lighting products automatic production line. Stable quality, strong production capacity, fast delivery speed can provide customers with high-quality products and services. The company has strong production capacity and fast delivery. At present, the monthly production of injection molding modules of the company is more than 10 million pieces, that of flexible light strip is more than 1 million meters, and the rigid light strip is more than 500,000 meters.

公司的部分产品通过了欧盟的CE认证、欧盟的ROHS环境认证、美国的FCC认证、美国的UL认证、德国TUV认证、ENEC、LM-80、LM-79、IP68防水等级认证等, 产品远销到欧洲, 美洲, 澳洲, 中东以及亚洲等100多个国家和地区。其品质和服务得到了国内外客户一致认可和赞誉。

公司在中国设有20多个直属的办事处及分公司。公司总部对各办事处及分公司进行严格的技术、企业文化、售后服务及营销培训, 为客户提供优质产品的同时提供最优质的售后服务。

为全球一流的公司服务, 致力成为全球LED高端标识灯箱照明及LED灯带线性照明, LED道具展示照明的领跑者, 致力成为全球美誉度最高的LED标识灯箱照明及LED灯带线性照明, LED道具展示照明的供应商, 是所有美耐斯人不懈的追求。



Several of the company's products have passed the European Union CE certification, the European Union ROHS environmental certification, the United States FCC certification, the United States UL certification, Germany TUV certification, ENEC, LM-80, LM-79, IP68 waterproof level certification and so on. The products are exported to Europe, the Americas, Australia, the Middle East and Asia and more than 100 countries and regions. Our quality and service has been recognized and praised by the domestic and abroad customers.

The company has more than 20 directly affiliated offices and branches in China. The head office of the company carries out strict technical, corporate culture, after-sales service and marketing training for each office and branch company to provide customers with high-quality products and the best after-sales service.

For the world's first-class company service, committed to become the world's leading LED high-end signage light box lighting and LED light strips linear lighting, LED props display lighting leader, committed to become the world's highest reputation LED signage light box lighting and LED light strips linear lighting, LED props display lighting suppliers. It is all Mynice's unremitting pursuit.



美耐斯携手"天天百应和超能蚁工"推行“全国联保, 售后无忧”服务体系

Mynice cooperated with "Tiandan Baiying and Super ant worker" to carry out the service system of "national guarantee guarantee, after-sales service without worry"

2019年1月,美耐斯与“超能蚁工”、“天天百应”签署战略合作协议。协议签署后,美耐斯将借助“天天百应”和“超能蚁工”APP平台上覆盖全国一二三四线城市加盟服务商和线下10000+名专业安装售后师傅,推行“全国联保,售后无忧”体系,进一步拓宽服务深度和行业规范。

In January 2019, MNES signed strategic cooperation agreements with "Super Ant Worker" and "Tianyuanbaiying". After the signing of the agreement, Meina will carry out the system of "National guarantee guarantee, after-sales care" by means of the APP platform of "Tianyan Baiying" and "Super Ant Worker" covering the first, second and third tier cities in China and more than 10,000 professional installation and after-sales masters offline, so as to further broaden the service depth and industry standards.

超能蚁工(上海渊华信息技术咨询有限公司)

Super Energy Ant Worker (Shanghai Yuanhua Information Technology Consulting Co., LTD.)

超能蚁工定位为信用中介撮合平台。平台目前已有500+品牌客户,100000+的技能工人加盟入驻。平台竭力为客户提供优质、安全、有担保的店铺维修保养服务。下单需求方(客户、包工头)可以零费用共享蚁工提供的分布全国近万名供应商师傅,接单方(包工头、师傅)可以与客户自主议价,享受无中间环节的接单差价,价格更透明、资金更安全、账期更短、效率更高。

Super ability ant worker is positioned as a credit intermediary matchmaking platform. At present, the platform has 500+ brand customers and 100,000 + skilled workers. The platform strives to provide customers with quality, safe and guaranteed store maintenance services. The single demand side (customer, contractor) can share the distribution of nearly 10,000 suppliers nationwide provided by ant workers at zero cost. The single party (contractor, contractor) can negotiate with the customer independently and enjoy the order price difference without intermediate links. The price is more transparent, the capital is safer, the payment days is shorter and the efficiency is higher.

天天百应(上海得豆信息技术有限公司)

Tiantian Baiying (Shanghai Dedou Information Technology Co., LTD.)

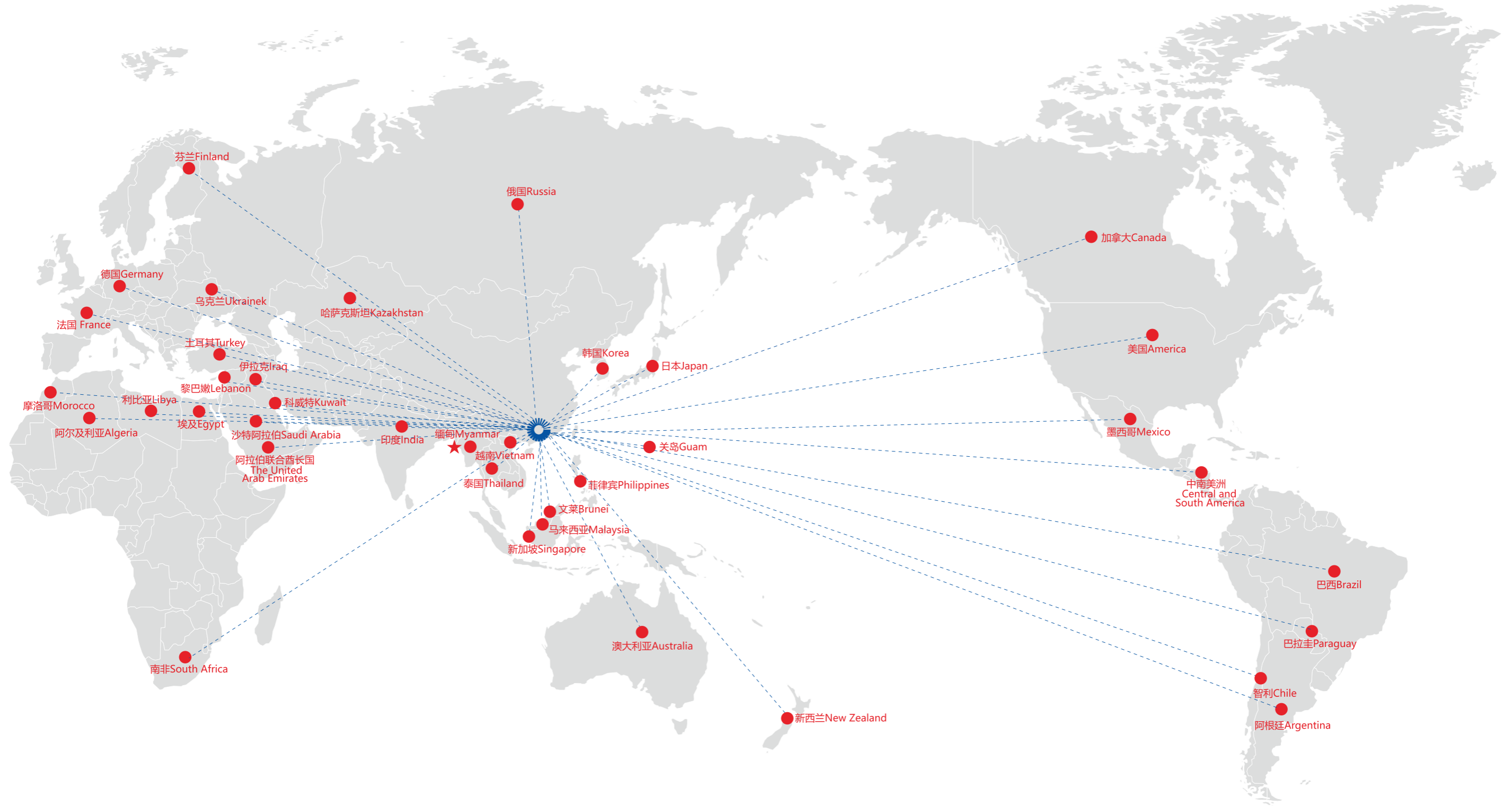
天天百应总部位于上海,在武汉设立分公司,是专注企业服务的O2O互联网平台。我们为商业连锁品牌客户(如星巴克、屈臣氏、ONLY、NIKE、IPSA、麦当劳、汉堡王、德克士等)提供全国范围的店铺维修保养服务,具体业务范围包括照明、标识、货架、道具、安防监控等商业设备的调试和安装维修。

Tiantian Baiying, with its headquarter located in Shanghai and a branch in Wuhan, is an O2O Internet platform focusing on enterprise services. We provide nationwide store maintenance services for commercial chain brand customers (such as Starbucks, Watsons, ONLY, NIKE, IPSA, McDonald's, Burger King, Deckers, etc.). Our specific business scope includes debugging, installation and maintenance of commercial equipment such as lighting, signs, shelves, props, security monitoring, etc.



营销网络

MARKETING NETWORK



公司资质

QUALIFIED CERTIFICATIONS



研发设备

R&D EQUIPMENT



生产能力

PRODUCTION CAPACITY



战略合作伙伴

STRATEGIC PARTNER



认证资质

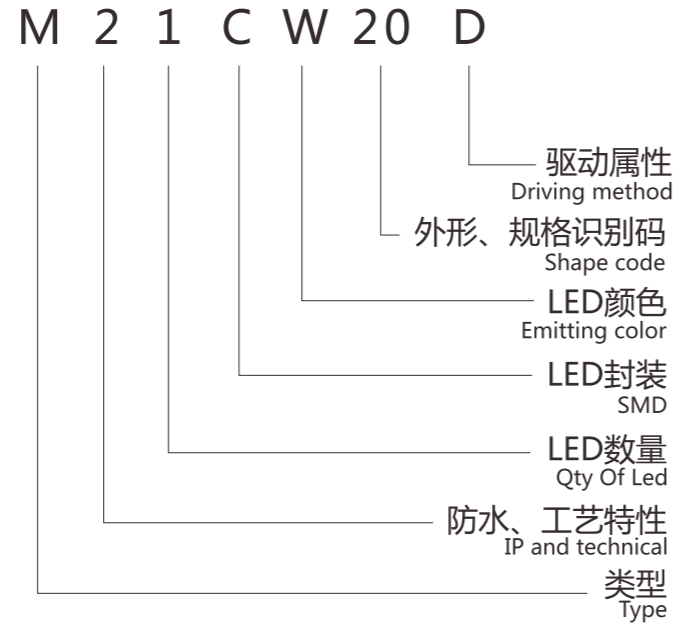
CERTIFICATION QUALIFICATION



产品命名规则说明

PRODUCTS NAMING RULES

产品命名规则： Naming Rules



类型： Type

M-模组	Modules
Z-直条灯	Rigid Bar
R-柔性灯带	Flexible Strips
L-铝条灯	Aluminum Strip

防水、工艺特性： IP and technical

0-卡槽不防水	Non Waterproof
1-滴胶防水	Glue Waterproof
2-注塑防水	Injection Waterproof
3-灌胶防水	Potting Waterproof

LED封装： Smd

A-5050封装	5050
B-3528封装	3528
C-3535封装	3535
D-5730封装	5730
E-3014封装	3014
G-2835封装	2835

LED颜色： Emitting Color

R-红色	Red
G-绿色	Green
B-蓝色	Blue
Y-黄色	Yellow
W-正白/冷白	Pure White/ Cold White
N-暖白	Warm White
A-七彩	RGB

驱动属性： Driving Method

A-恒压DC12V	Constant Voltage 12v
B-恒压DC24V	Constant Voltage 24v
D-恒流DC12V	Constant Current 12v
E-恒流DC24V	Constant Current 24v
Q-七彩群控	RGB group control

目录 CONTENTS

标识/灯箱光源篇 Signs/light Box

NOVA 系列(新品) Nova series new products	1-5
1:3光学高光效系列 1:3 Optical High Efficiency Series	6-10
1:3光学经典款系列 1:3 Optical Classic Series	11-15
1:4光学系列 1:4 Optical Series	16-18
灯箱光源系列 Light Box Series	19-30
常规模组系列 Normal Modules Series	31-50
高压硬灯条 High voltage rigid light bar	51-54
低压硬灯条 High voltage rigid light bar	55-62
电源、控制 Power supply and Controller	63-72
配件清单 Accessories List	73

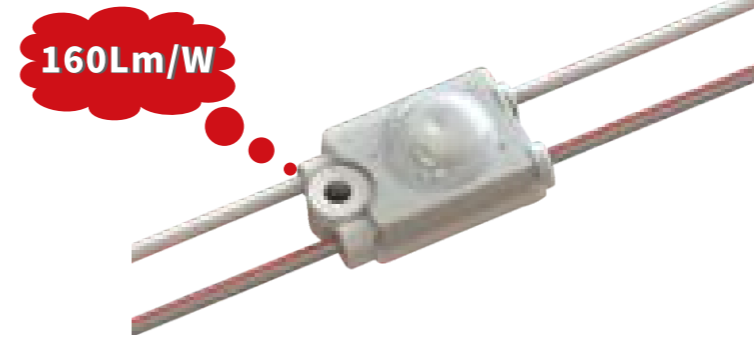
NOVA系列(新品)

NOVA SERIES NEW PRODUCTS

M21GW(N)11D **NEW**



最佳应用: 12-30cm厚度的单面灯箱
Best for: 12-30 cm thickness of single sided light boxes



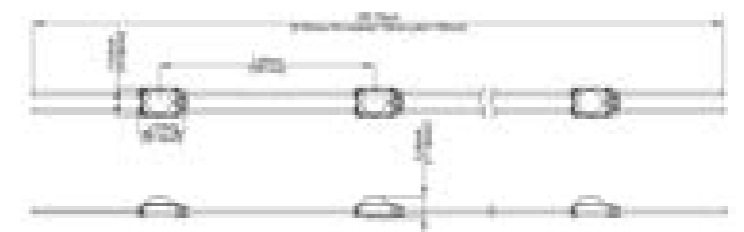
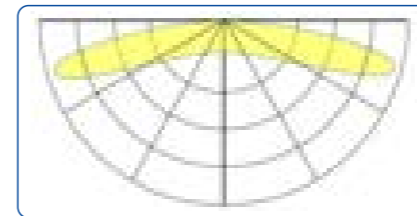
产品特点(Product Features)

- ◆ 新型出色的透镜设计, 可在高LED模块距离下实现均匀高效的照明
Uniform and efficient illumination at high LED module distance thanks to new excellent lens design
- ◆ 防水等级IP67, 50个模组每串
IP Level: Ip67, 50 modules per Chain

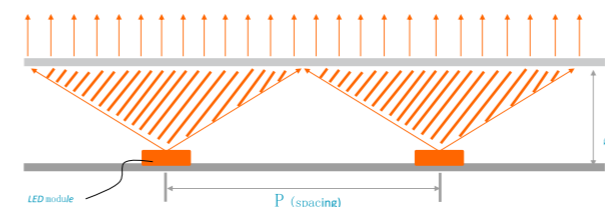
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 0.36W / pcs
- ◆ 光通量(Luminous): 58lm / pcs
- ◆ 寿命(lifetime): > 50000(hours)

光学数据分布(Optical Data Distribution)

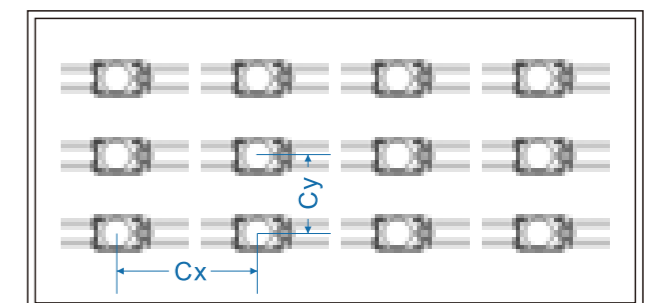


应用说明(Application Notes)



$$\text{光学性能比} = \frac{P(\text{间距})}{D(\text{深度})} = \frac{1}{3}$$

optical performance proption = $\frac{P(\text{Spacing})}{D(\text{Depth})} = \frac{1}{3}$

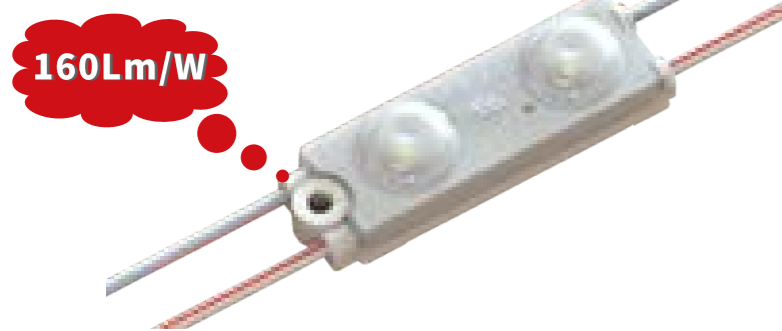


产品 Product	灯箱深度 Depth	Cx	Cy	表面照度 Surface illuminance
M21GW11D	50mm	100mm	90mm	2300Lux



M22GW(N)11D **NEW**

最佳应用: 12-30cm厚度的单面灯箱
Best for: 12-30 cm thickness of single sided light boxes



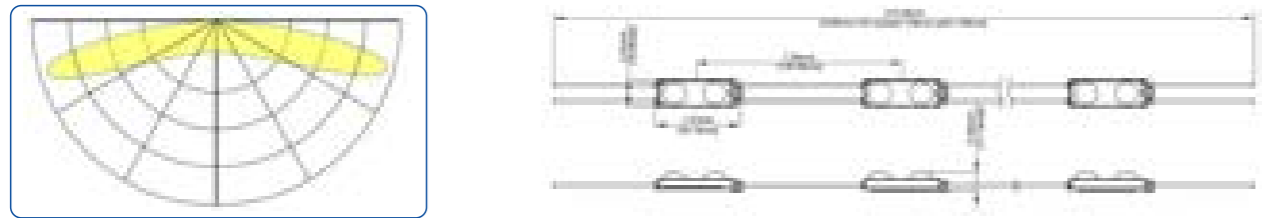
产品特点(Product Features)

- ◆ 新型出色的透镜设计,可在高LED模块距离下实现均匀高效的照明
Uniform and efficient illumination at high LED module distance thanks to new excellent lens design
- ◆ 防水等级IP67, 30个模组每串
IP Level: Ip67, 30 modules per Chain

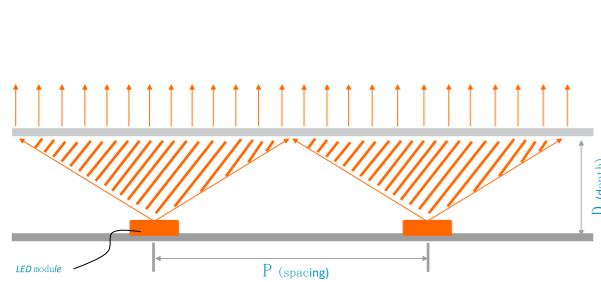
技术参数(Product features)

- ◆ 输入电压(Input Voltage):DC 12V
- ◆ 功率(Power): 0.72W / pcs
- ◆ 光通量(Luminous): 116lm / pcs
- ◆ 寿命(lifetime): > 50000(hours)

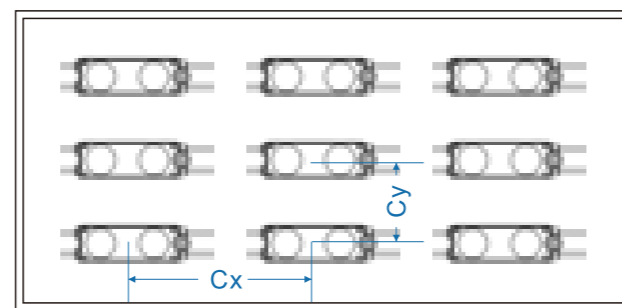
光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



光学性能比
optical performance proption = $\frac{P(\text{间距})}{D(\text{深度})} = \frac{1}{3}$

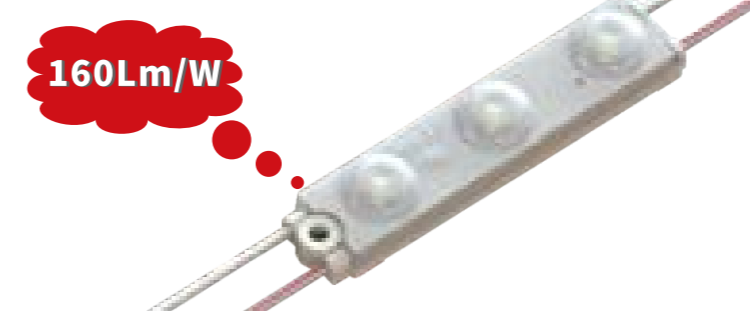


产品 Product	灯箱深度 Depth	Cx	Cy	表面照度 Surface illuminance
M22GW11D	80mm	180mm	160mm	1300Lux



M23GW(N)11D **NEW**

最佳应用: 12-30cm厚度的单面灯箱
Best for: 12-30 cm thickness of single sided light boxes



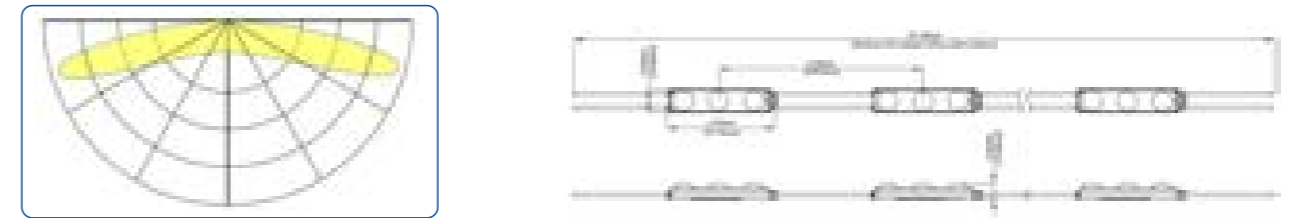
产品特点(Product Features)

- ◆ 新型出色的透镜设计,可在高LED模块距离下实现均匀高效的照明
Uniform and efficient illumination at high LED module distance thanks to new excellent lens design
- ◆ 防水等级IP67, 20个模组每串
IP Level: Ip67, 20 modules per Chain

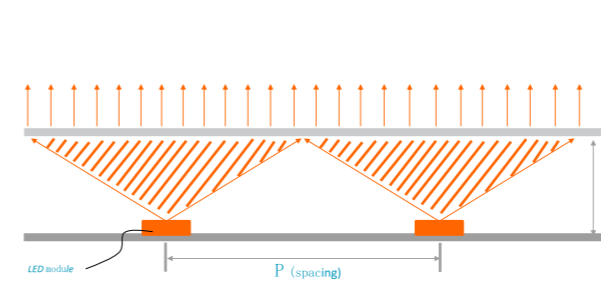
技术参数(Product features)

- ◆ 输入电压(Input Voltage):DC 12V
- ◆ 功率(Power): 1.08W / pcs
- ◆ 光通量(Luminous): 174lm / pcs
- ◆ 寿命(lifetime): > 50000(hours)

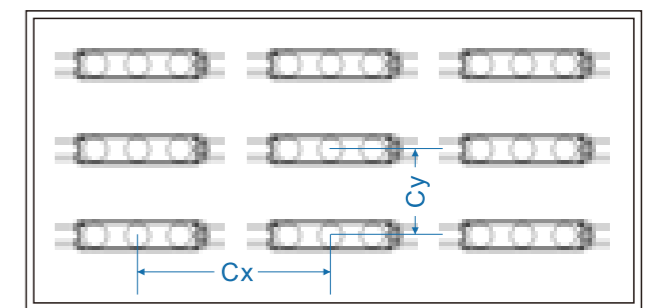
光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



光学性能比
optical performance proption = $\frac{P(\text{间距})}{D(\text{深度})} = \frac{1}{3}$

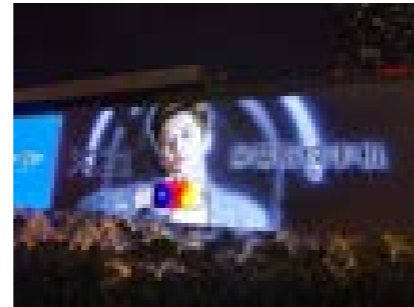
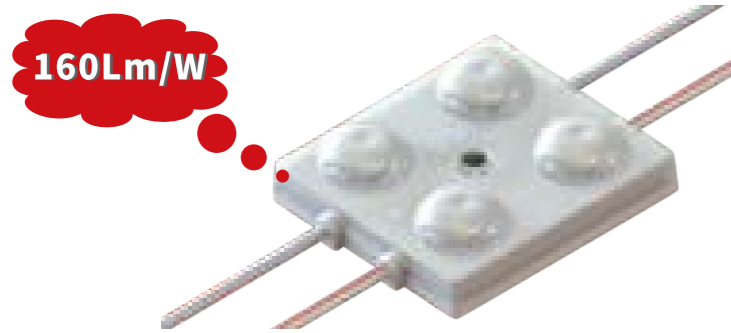


产品 Product	灯箱深度 Depth	Cx	Cy	表面照度 Surface illuminance
M23GW11D	100mm	220mm	200mm	1300Lux



M24GW(N)11D **NEW**

最佳应用: 12-30cm厚度的单面灯箱
Best for: 12-30 cm thickness of single sided light boxes



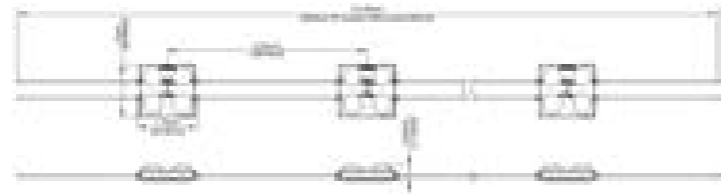
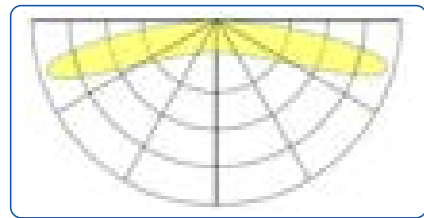
产品特点(Product Features)

- ◆ 新型出色的透镜设计,可在高LED模块距离下实现均匀高效的照明
Uniform and efficient illumination at high LED module distance thanks to new excellent lens design
- ◆ 防水等级IP67, 20个模组每串
IP Level: Ip67, 20 modules per Chain

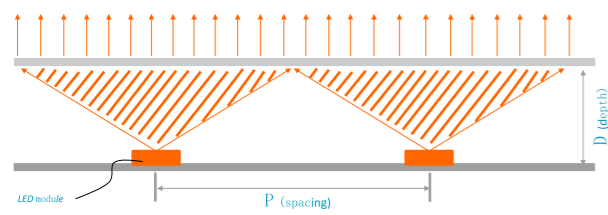
技术参数(Product features)

- ◆ 输入电压(Input Voltage):DC 12V
- ◆ 功率(Power): 1.44W / pcs
- ◆ 光通量(Luminous): 232lm / pcs
- ◆ 寿命(lifetime): > 50000(hours)

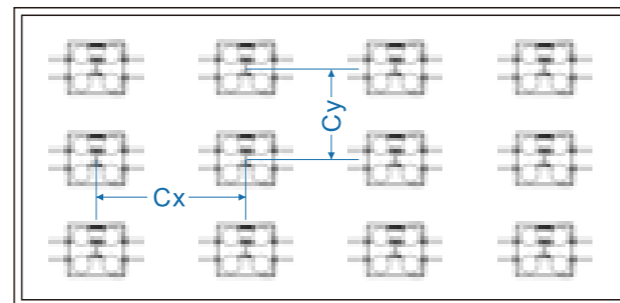
光学数据分布(Optical Data Distribution)



应用说明(Application Notes)

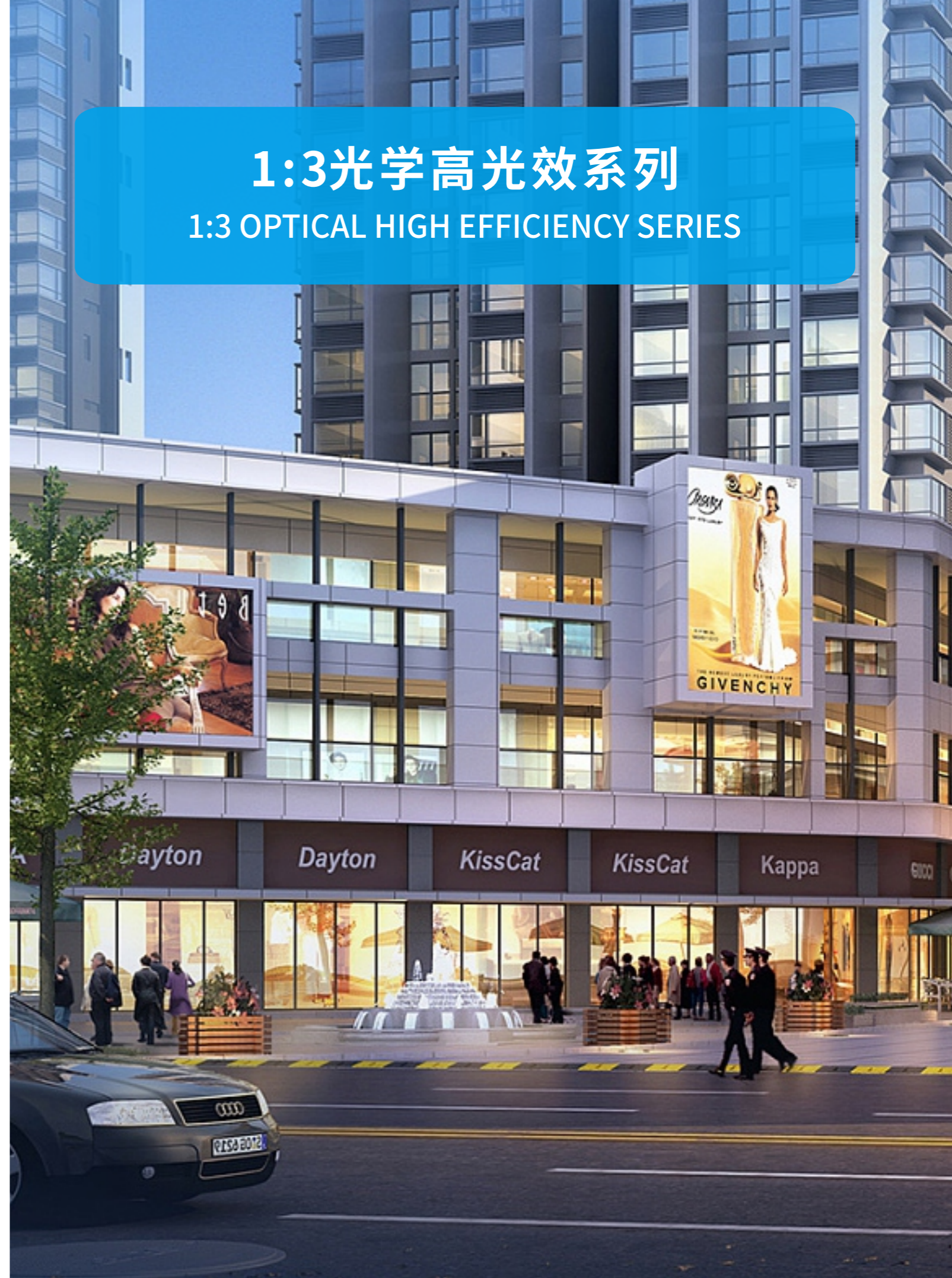


光学性能比
optical performance proption $= \frac{P(\text{间距})}{D(\text{深度})} = \frac{1}{3}$



产品 Product	灯箱深度 Depth	Cx	Cy	表面照度 Surface illuminance
M24GW11D	130mm	260mm	240mm	1100Lux

1:3光学高光效系列
1:3 OPTICAL HIGH EFFICIENCY SERIES



M21GW31A-H



155Lm/W



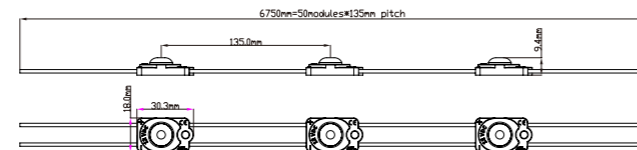
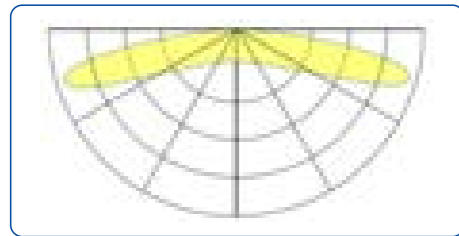
产品特点(Product Features)

- ◆卓越的新光学透镜设计能够获得更大的光斑(比例3:1),在实际应用中可节省约55%的模组用量和安装人工成本
New excellent lens design to get much wider light spot (3:1 proportion), can save ~55% module quantity and labor cost in application
- ◆超高光效达155lm/W,在实际应用中可节省约38%的电源用量和电费
High efficacy as 155lm/W, can save ~38% power supplier quantity and energy in application

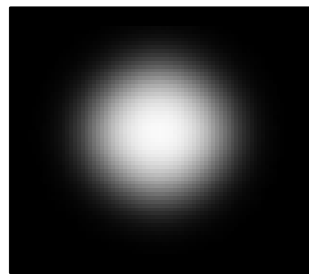
技术参数(Product features)

- ◆输入电压(Input Voltage):DC 12V
- ◆功率(Power): 0.5 W / pcs
- ◆光通量(Luminous): 78Lm / pcs
- ◆寿命(lifetime): > 50000(hours)

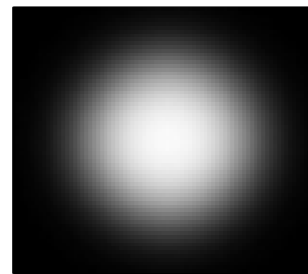
光学数据分布(Optical Data Distribution)



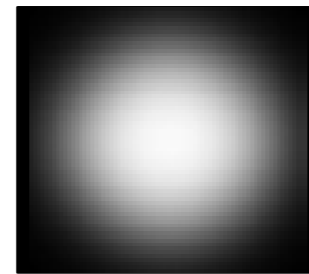
应用说明(Application Notes)



Normal bat-wing lens
in market,P:D=1.5:1



Mynice 2:1



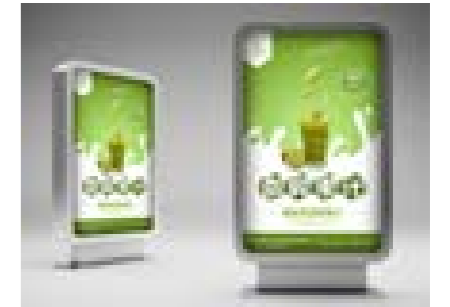
Mynice 3:1

采用新一代镜头的产品可节省模块数量和安装人工成本约55%
The product with new generation lens can save module quantity and installation labor cost about 55%.

M22GW31A-H



155Lm/W



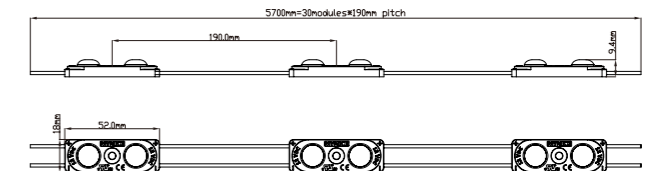
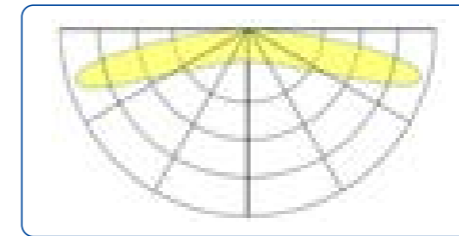
产品特点(Product Features)

- ◆卓越的新光学透镜设计能够获得更大的光斑(比例3:1),在实际应用中可节省约55%的模组用量和安装人工成本
New excellent lens design to get much wider light spot (3:1 proportion), can save ~55% module quantity and labor cost in application
- ◆超高光效达155lm/W,在实际应用中可节省约38%的电源用量和电费
High efficacy as 155lm/W, can save ~38% power supplier quantity and energy in application

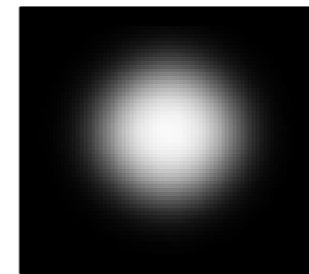
技术参数(Product features)

- ◆输入电压(Input Voltage):DC 12V
- ◆功率(Power):1 W / pcs
- ◆光通量(Luminous): 155 Lm/ pcs
- ◆寿命(lifetime): > 50000(hours)

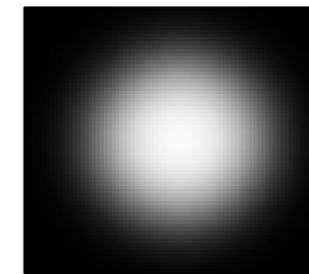
光学数据分布(Optical Data Distribution)



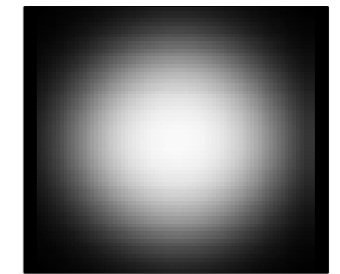
应用说明(Application Notes)



Normal bat-wing lens
in market,P:D=1.5:1



Mynice 2:1



Mynice 3:1

采用新一代镜头的产品可节省模块数量和安装人工成本约55%
The product with new generation lens can save module quantity and installation labor cost about 55%.

M23GW31A-H



155lm/W



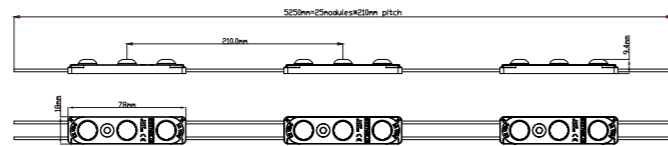
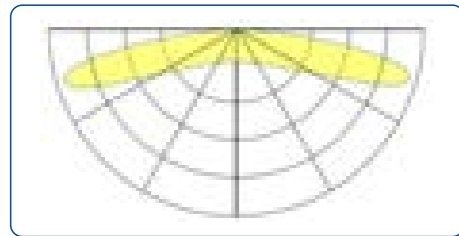
产品特点(Product Features)

- ◆卓越的新光学透镜设计能够获得更大的光斑(比例3:1),在实际应用中可节省约55%的模组用量和安装人工成本
New excellent lens design to get much wider light spot (3:1 proportion), can save ~55% module quantity and labor cost in application
- ◆超高光效达155lm/W,在实际应用中可节省约38%的电源用量和电费
High efficacy as 155lm/W, can save ~38% power supplier quantity and energy in application

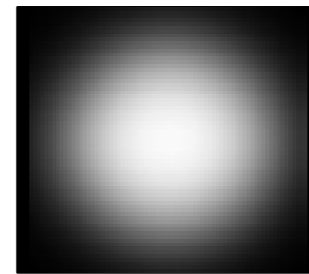
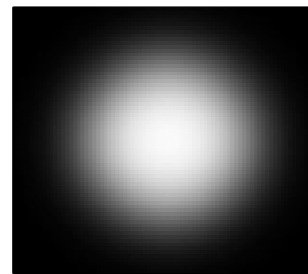
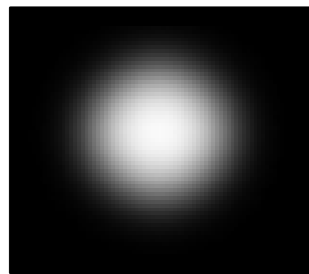
技术参数(Product features)

- ◆输入电压(Input Voltage):DC 12V
- ◆功率(Power): 1.5 W / pcs
- ◆光通量(Luminous): 233 Lm/ pcs
- ◆寿命(lifetime): > 50000(hours)

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



Normal bat-wing lens in market, P:D=1.5:1

Mynice 2:1

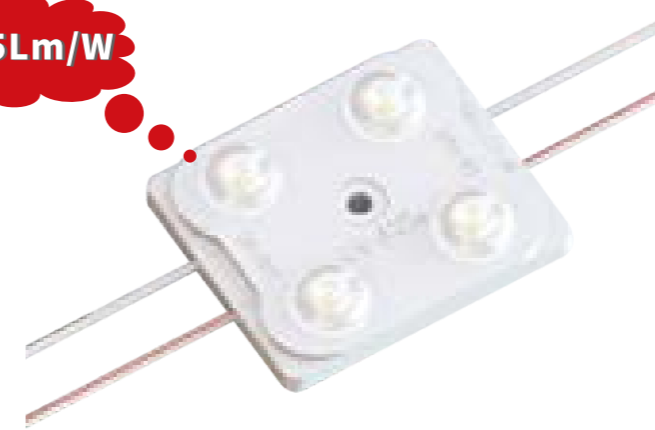
Mynice 3:1

采用新一代镜头的产品可节省模块数量和安装人工成本约55%
The product with new generation lens can save module quantity and installation labor cost about 55%.

M24GW31A-H



155lm/W



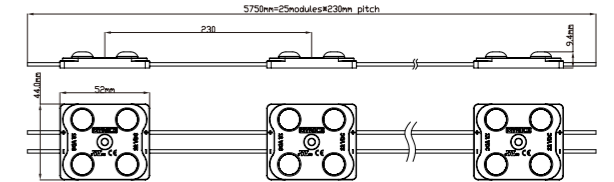
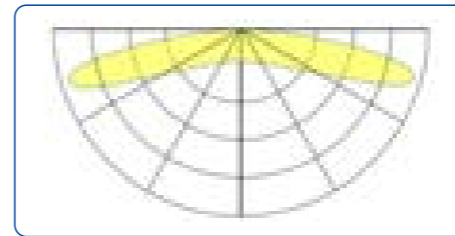
产品特点(Product Features)

- ◆卓越的新光学透镜设计能够获得更大的光斑(比例3:1),在实际应用中可节省约55%的模组用量和安装人工成本
New excellent lens design to get much wider light spot (3:1 proportion), can save ~55% module quantity and labor cost in application
- ◆超高光效达155lm/W,在实际应用中可节省约38%的电源用量和电费
High efficacy as 155lm/W, can save ~38% power supplier quantity and energy in application

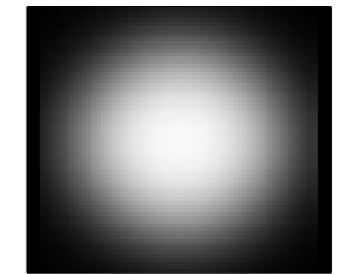
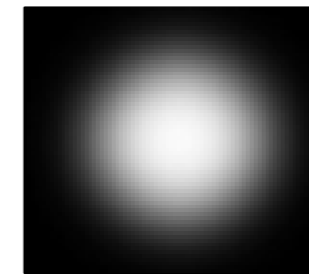
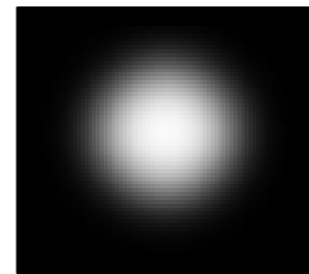
技术参数(Product features)

- ◆输入电压(Input Voltage):DC 12V
- ◆功率(Power): 2W / pcs
- ◆光通量(Luminous): 310Lm / pcs
- ◆寿命(lifetime): > 50000(hours)

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



Normal bat-wing lens in market, P:D=1.5:1

Mynice 2:1

Mynice 3:1

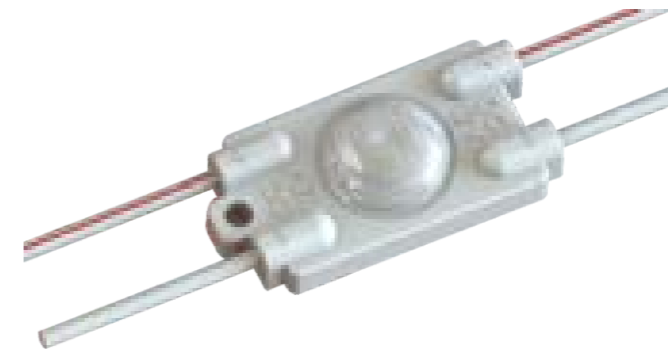
采用新一代镜头的产品可节省模块数量和安装人工成本约55%
The product with new generation lens can save module quantity and installation labor cost about 55%.

1:3光学经典款系列

1:3 OPTICAL CLASSIC SERIES



M21GW30A



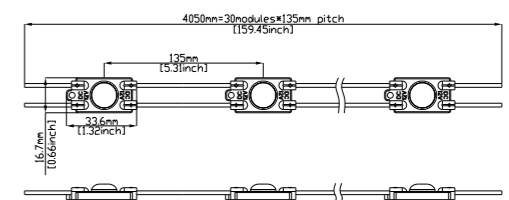
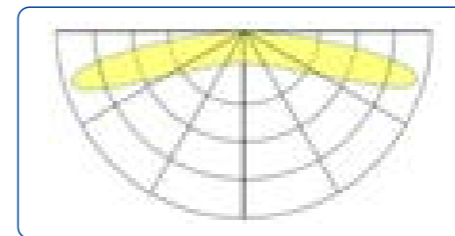
产品特点(Product Features)

- ◆ 卓越的新光学透镜设计能够获得更宽的光斑 (比例3:1), 在实际应用中可节省约55%的模组用量和安装人工成本
New excellent lens design to get much wider light spot (3:1 proportion), can save ~55% module quantity and labor cost in application
- ◆ 适用于超薄灯箱和发光字 (最薄可达30mm)
Can be used for ultra-thin light box and channel letter (min. thickness 30mm)

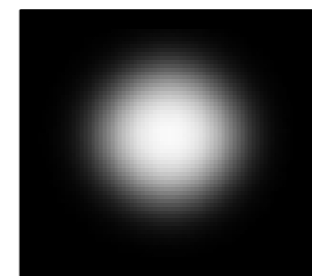
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 0.5W / pcs
- ◆ 光通量(Luminous): 48Lm / pcs
- ◆ 寿命(lifetime): > 50000(hours)

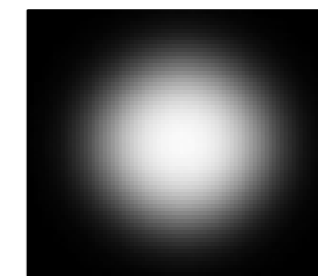
光学数据分布(Optical Data Distribution)



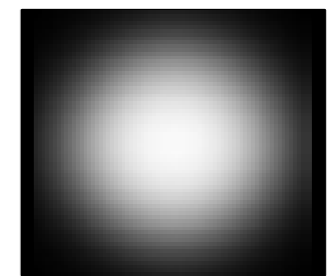
应用说明(Application Notes)



Normal bat-wing lens
in market, P:D=1.5:1



Mynice 2:1



Mynice 3:1

采用新一代镜头的产品可节省模块数量和安装人工成本约55%
The product with new generation lens can save module quantity and installation labor cost about 55%.

M22GW30A



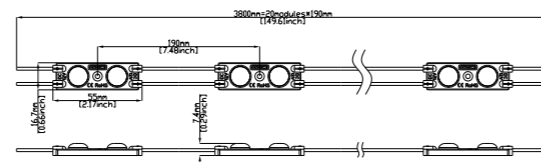
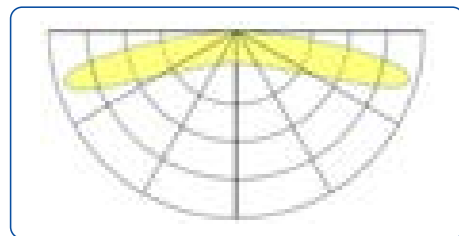
产品特点(Product Features)

- ◆卓越的新光学透镜设计能够获得更宽的光斑(比例3:1),在实际应用中可节省约55%的模组用量和安装人工成本
New excellent lens design to get much wider light spot (3:1 proportion), can save ~55% module quantity and labor cost in application
- ◆适用于超薄灯箱和发光字(最薄可达30mm)
Can be used for ultra-thin light box and channel letter (min. thickness 30mm)

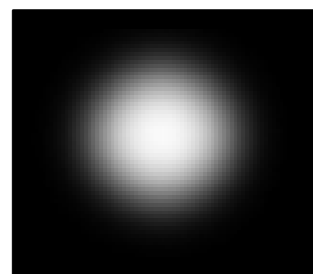
技术参数(Product features)

- ◆输入电压(Input Voltage):DC 12V
- ◆功率(Power): 1 W / pcs
- ◆光通量(Luminous): 95Lm / pcs
- ◆寿命(lifetime): > 50000(hours)

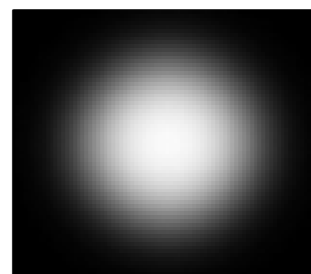
光学数据分布(Optical Data Distribution)



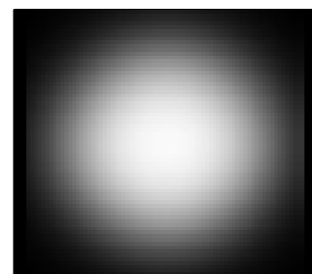
应用说明(Application Notes)



Normal bat-wing lens
in market, P:D=1.5:1



Mynice 2:1



Mynice 3:1

采用新一代镜头的产品可节省模块数量和安装人工成本约55%
The product with new generation lens can save module quantity and installation labor cost about 55%.

M23GW30A



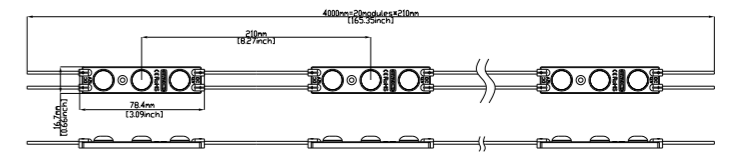
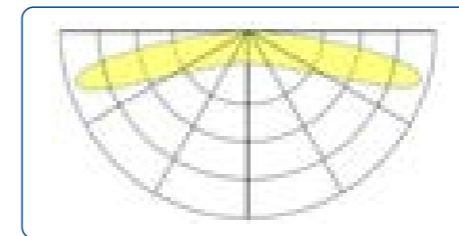
产品特点(Product Features)

- ◆卓越的新光学透镜设计能够获得更宽的光斑(比例3:1),在实际应用中可节省约55%的模组用量和安装人工成本
New excellent lens design to get much wider light spot (3:1 proportion), can save ~55% module quantity and labor cost in application
- ◆适用于超薄灯箱和发光字(最薄可达30mm)
Can be used for ultra-thin light box and channel letter (min. thickness 30mm)

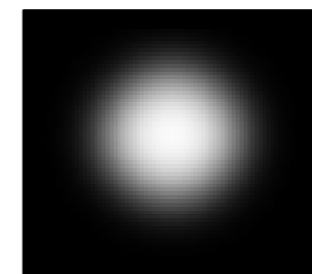
技术参数(Product features)

- ◆输入电压(Input Voltage):DC 12V
- ◆功率(Power): 1.5 W / pcs
- ◆光通量(Luminous): 143 Lm / pcs
- ◆寿命(lifetime): > 50000(hours)

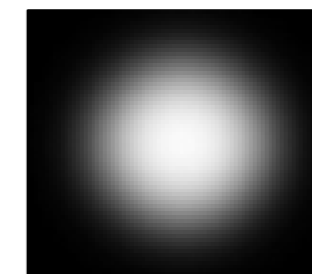
光学数据分布(Optical Data Distribution)



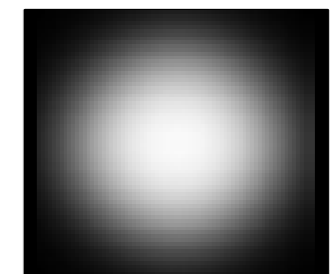
应用说明(Application Notes)



Normal bat-wing lens
in market, P:D=1.5:1



Mynice 2:1



Mynice 3:1

采用新一代镜头的产品可节省模块数量和安装人工成本约55%
The product with new generation lens can save module quantity and installation labor cost about 55%.



M24GW30A



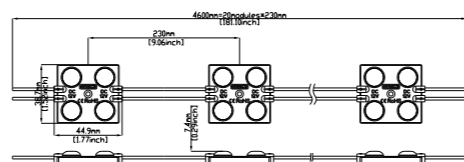
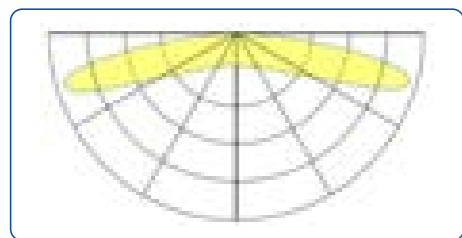
产品特点(Product Features)

- ◆卓越的新光学透镜设计能够获得更宽的光斑(比例3:1),在实际应用中可节省约55%的模组用量和安装人工成本
New excellent lens design to get much wider light spot (3:1 proportion), can save ~55% module quantity and labor cost in application
- ◆适用于超薄灯箱和发光字(最薄可达30mm)
Can be used for ultra-thin light box and channel letter (min. thickness 30mm)

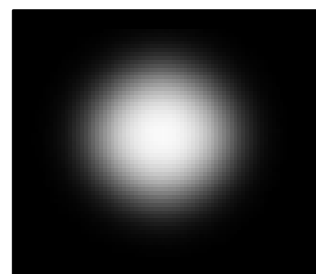
技术参数(Product features)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 2W / pcs
- ◆光通量(Luminous): 190Lm / pcs
- ◆寿命(lifetime): > 50000(hours)

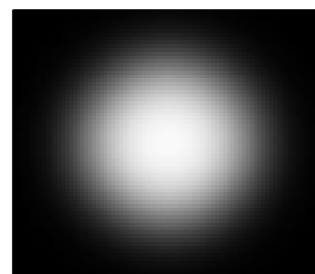
光学数据分布(Optical Data Distribution)



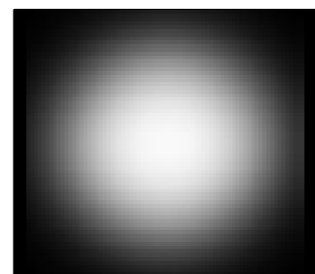
应用说明(Application Notes)



Normal bat-wing lens
in market, P:D=1.5:1



Mynice 2:1



Mynice 3:1

采用新一代镜头的产品可节省模块数量和安装人工成本约55%
The product with new generation lens can save module quantity and installation labor cost about 55%.



1:4光学系列

1:4 OPTICAL SERIES

M24GW34D

M24GW34E



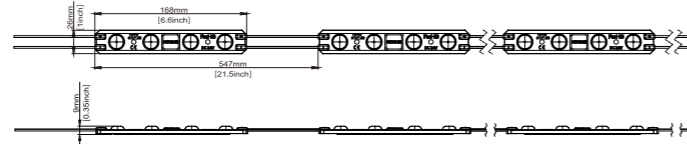
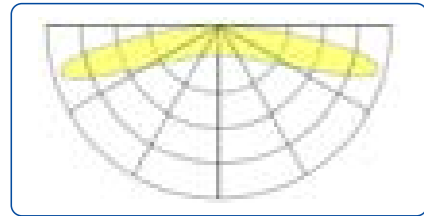
产品特点(Product Features)

- ◆ 创新超大光斑光学透镜设计,在长的模组间距下可保证实际的高均匀性
Uniform and efficient illumination at high LED module distance thanks to new wide lens design
- ◆ 1平方米灯箱仅需6个模组
6 modules in 1 square meter light box can get excellent optical performance
- ◆ 5年质保
5 years warranty

技术参数(Product features)

- ◆ 输入电压(Input Voltage):DC 12/24V
- ◆ 功率(Power): 4.5W / pcs
- ◆ 光通量(Luminous): 450Lm / pcs
- ◆ 寿命(lifetime): > 50000(hours)

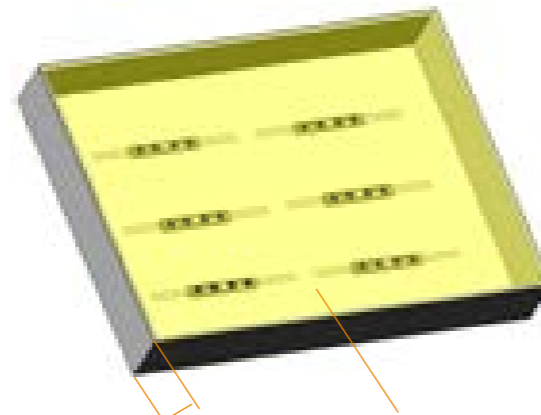
光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



1平方米的灯箱(1 square meter light box)



灯箱厚度 (Light box depth) 表面亮度 (Surface brightness)

M28GW34D

M28GW34E



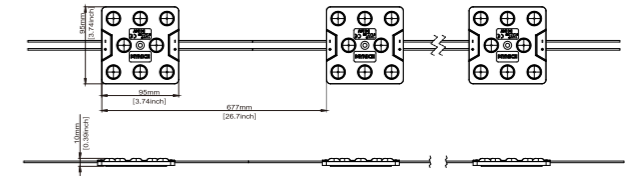
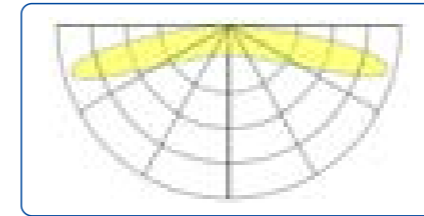
产品特点(Product Features)

- ◆ 创新超大光斑光学透镜设计,在长的模组间距下可保证实际的高均匀性
Uniform and efficient illumination at high LED module distance thanks to new wide lens design
- ◆ 1平方米灯箱仅需4个模组
4 modules in 1 square meter light box can get excellent optical performance
- ◆ 5年质保
5 years warranty

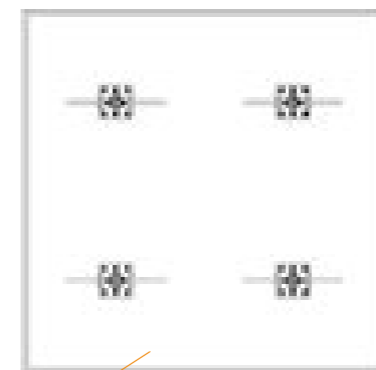
技术参数(Product features)

- ◆ 输入电压(Input Voltage):DC 12/24V
- ◆ 功率(Power): 9W / pcs
- ◆ 光通量(Luminous): 900Lm / pcs
- ◆ 寿命(lifetime): > 50000(hours)

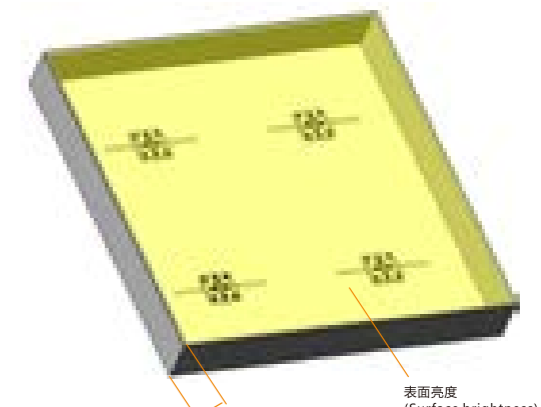
光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



1平方米的灯箱(1 square meter light box)



灯箱厚度 (Light box depth) 表面亮度 (Surface brightness)

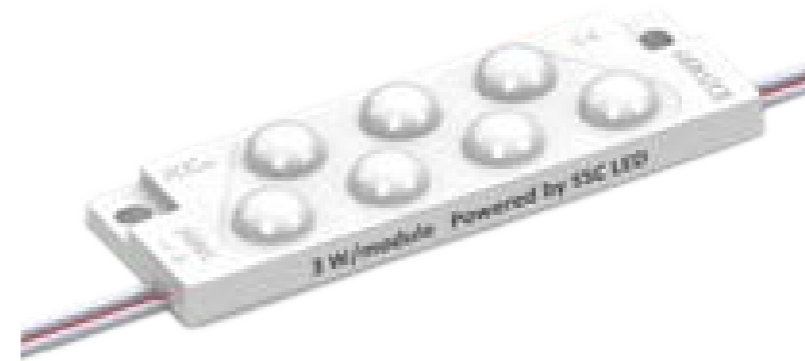
灯箱光源系列

LIGHT BOX SERIES

M37HW32E



最佳应用: 8-25cm厚度单面灯箱和发光字
Best for: 8-25 cm thickness of single sided light boxes and channel letters



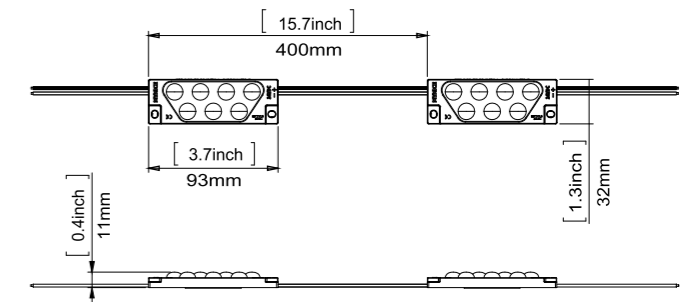
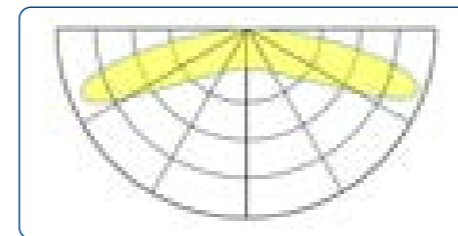
产品特点(Product Features)

- ◆ 170°发光角度, 高效率, 高均匀性透镜
170°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 采用大光束角设计, 在高模块间距均匀高效照明
Uniform and efficient illumination at high module pitches thanks to big beam angle design
- ◆ 防水等级IP68, 40个模组每串
IP Level: IP68, 40 modules per Chain

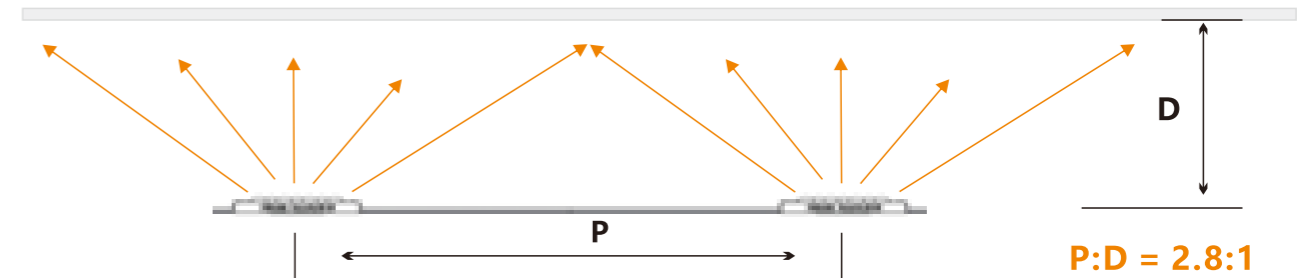
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 24V
- ◆ 功率(Power): 3W / pcs
- ◆ 光通量(Luminous): 465lm / pcs
- ◆ 寿命(lifetime): > 70000(hours)
- ◆ 颜色(Color): ○ ○ ○

光学数据分布(Optical Data Distribution)



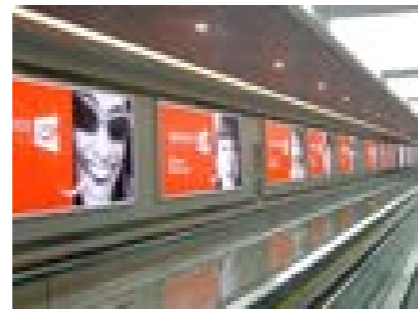
应用说明(Application Notes)



Bigger light spot can achieve better uniformity or less module quantity.

M214HW30E

最佳应用: 12-30cm厚度双面灯箱
Best for: Double-sided light box with 12-30 cm thickness



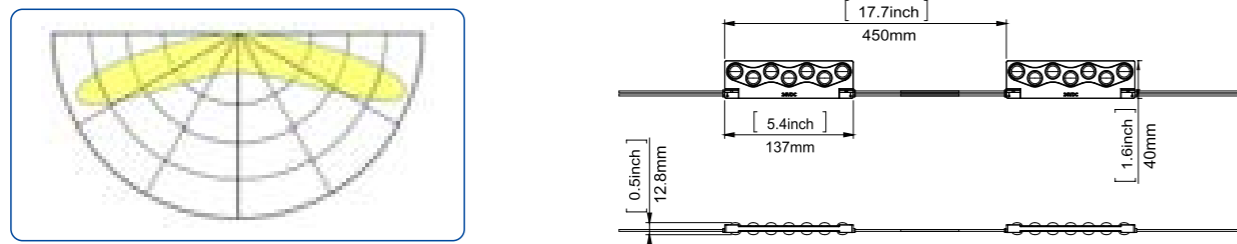
产品特点(Product Features)

- ◆ 170°发光角度, 高亮度, 高透光率透镜
170°Beam Angle, High Brightness, High Transmittance Lens
- ◆ 双侧灯箱背光照明, 最佳深度为120mm至300mm
Back-lighting of double side light box, best for 120mm to 300mm depth
- ◆ 防水等级IP67, 20个模组每串
IP Level: IP67, 20 modules per Chain

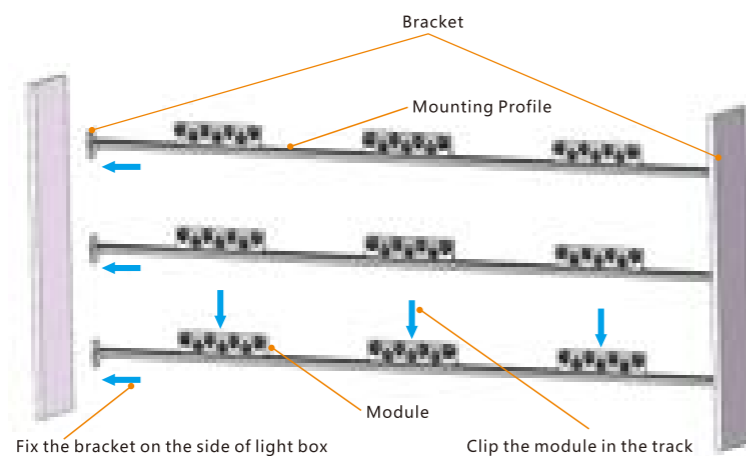
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 24V
- ◆ 功率(Power): 6W / pcs
- ◆ 光通量(Luminous): 930ml / pcs
- ◆ 寿命(lifetime): > 70000(hours)
- ◆ 颜色(Color): ● ● ● ● ● ●

光学数据分布(Optical Data Distribution)



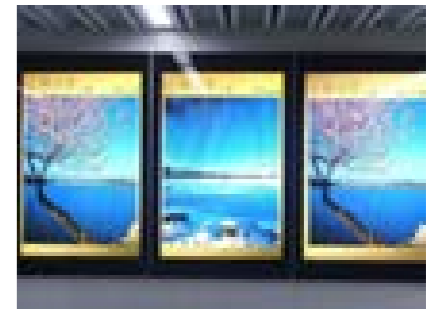
应用说明(Application Notes)



M22HW10E

NEW

最佳应用: 6-15cm厚度灯箱
Best for: 6-15 cm thickness of light boxes



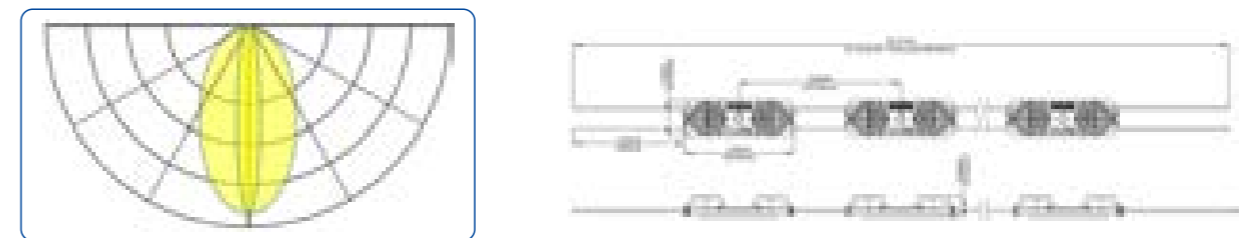
产品特点(Product Features)

- ◆ 14*32°发光角度, 高效率, 高均匀性透镜
14*32°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 全新的透镜设计, 带来均匀的光斑及色彩感
Uniform brightness and color performance thanks to new excellent lens design.
- ◆ 防水等级IP67, 40个模组每串
IP Level: IP67, 40 modules per Chain

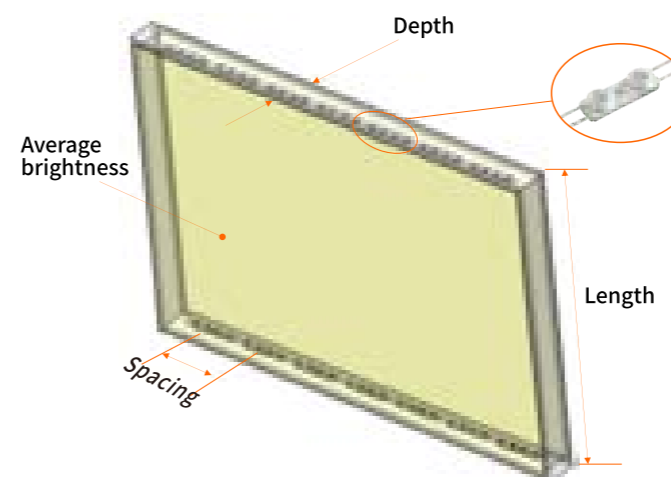
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 24V
- ◆ 功率(Power): 3W / pcs
- ◆ 光通量(Luminous): 315ml / pcs
- ◆ 寿命(lifetime): > 50000(hours)
- ◆ 颜色(Color): ● ● ●

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



产品 Product	灯箱深度 Depth	灯箱长度 Length	模组间距 Spacing	表面照度 Surface illuminance
M22HW10E	60mm	600mm	100mm	1300Lux
	80mm	1000mm	100mm	900Lux
	100mm	1000mm	110mm	700Lux
	120mm	1500mm	120mm	600Lux

M24HW10E

NEW

最佳应用: 8-25cm厚度灯箱
Best for: 8-20 cm thickness of light boxes



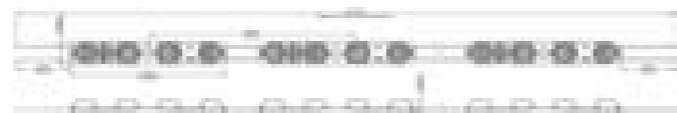
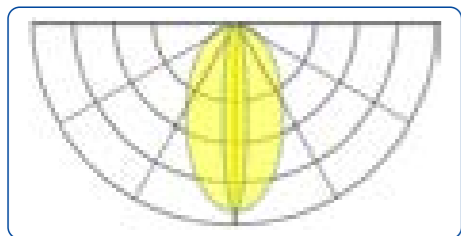
产品特点(Product Features)

- ◆ 14x32°发光角度, 高效率, 高均匀性透镜
14x32°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 全新的透镜设计, 带来均匀的光斑及色彩感
Uniform brightness and color performance thanks to new excellent lens design.
- ◆ 防水等级IP66, 20个模组每串
IP Level: IP66, 20 modules per Chain

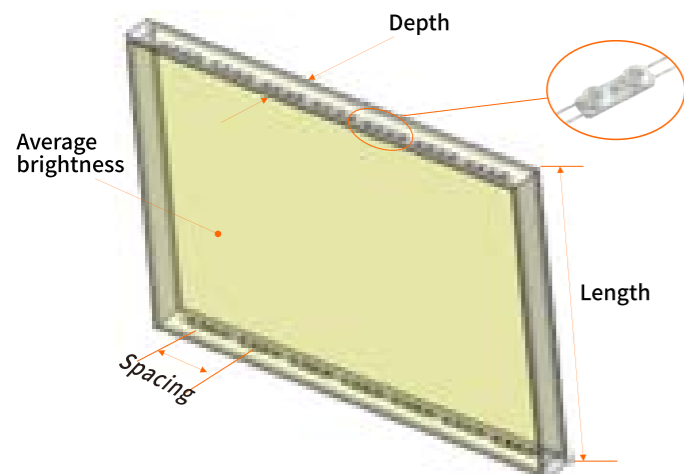
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 24V
- ◆ 功率(Power): 6W / pcs
- ◆ 光通量(Luminous): 630ml / pcs
- ◆ 寿命(lifetime): > 50000(hours)
- ◆ 颜色(Color): ○ ○ ○

光学数据分布(Optical Data Distribution)



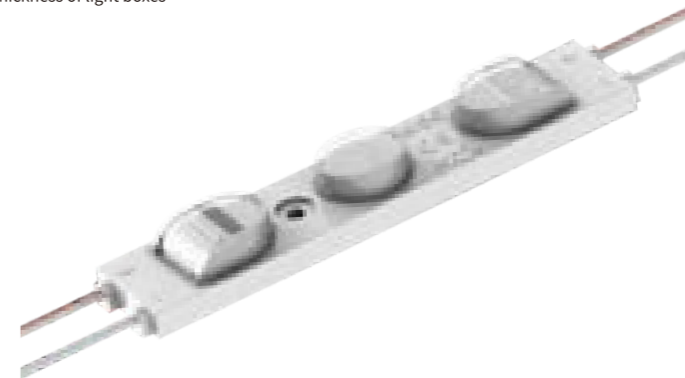
应用说明(Application Notes)



产品 Product	灯箱深度 Depth	灯箱长度 Length	模组间距 Spacing	表面照度 Surface illuminance
M24HW10E	80mm	1000mm	200mm	1300Lux
	100mm	1000mm	220mm	900Lux
	120mm	1500mm	225mm	800Lux
	150mm	1500mm	225mm	700Lux

M23EW30D

最佳应用: 8-20cm厚度的灯箱
Best for: 8-20 cm thickness of light boxes



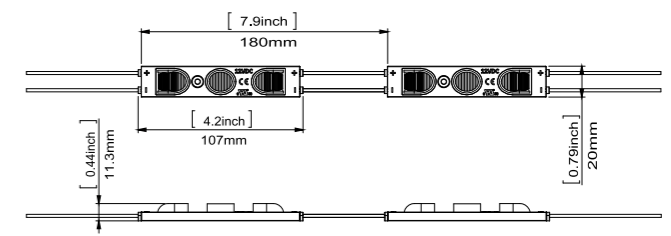
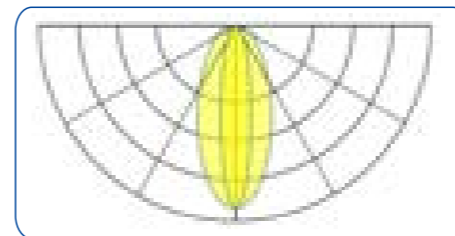
产品特点(Product Features)

- ◆ 出色的光学设计可满足长灯箱均匀性要求
Excellent optical design can meet long light box uniformity requirement
- ◆ 防水等级IP67, 40个模组每串
IP Level: IP67, 40 modules per Chain

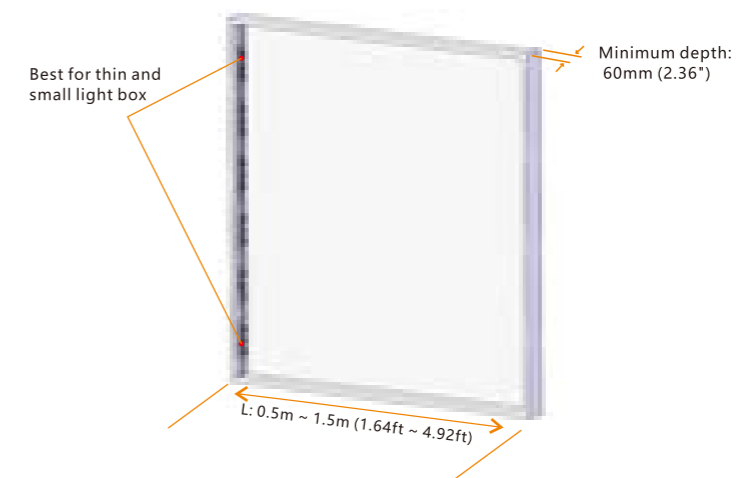
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 1.32W / pcs
- ◆ 光通量(Luminous): 140ml / pcs
- ◆ 寿命(lifetime): > 70000(hours)
- ◆ 颜色(Color): ○ ○ ○

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



M33HW32E

最佳应用: 2-4m长的双面灯箱
Best for: 2-4m long double-sided light box



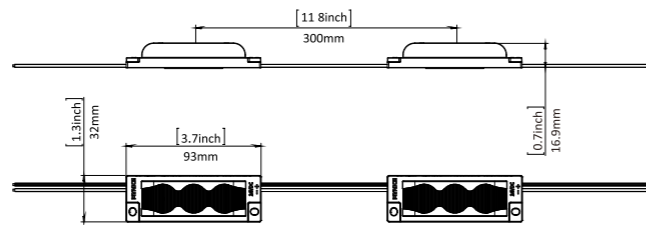
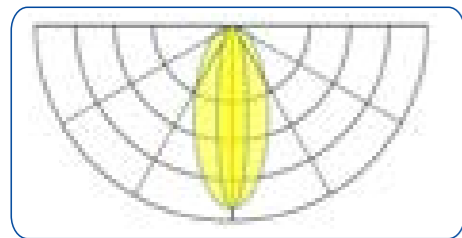
产品特点(Product Features)

- ◆ 创新圆弧透镜设计, 高均匀度
Innovative arc lens design, high uniformity
- ◆ 出色的光学设计可满足长灯箱均匀性要求
Excellent optical design can meet long light box uniformity requirement
- ◆ 防水等级IP68, 40个模组每串
IP Level: IP68, 40 modules per Chain

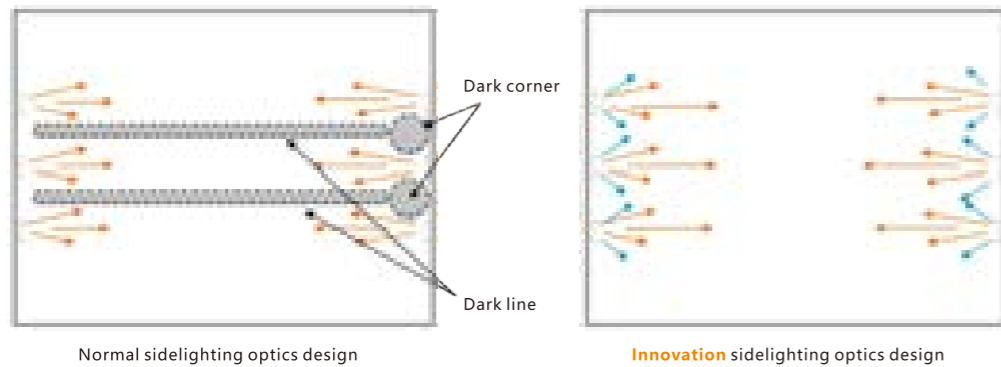
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 24V
- ◆ 功率(Power): 3W / pcs
- ◆ 光通量(Luminous): 390ml / pcs
- ◆ 寿命(lifetime): > 70000(hours)
- ◆ 颜色(Color): ○ ○ ○

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



M224EW30E

最佳应用: 8-25cm厚度单面灯箱和发光字
Best for: 8-20 cm thickness of single sided light boxes and channel letters



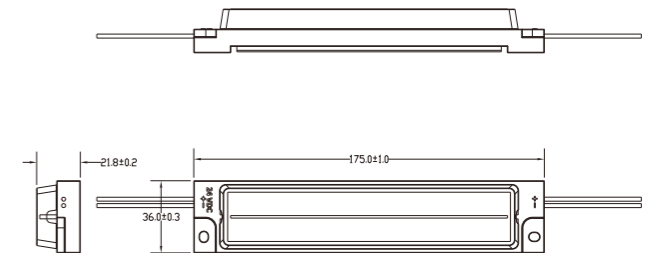
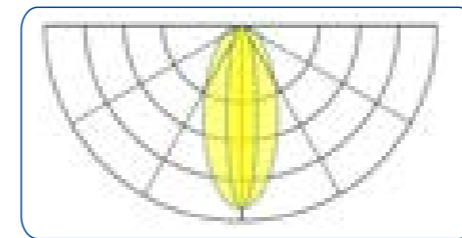
产品特点(Product Features)

- ◆ 创新微结构设计, 无亮斑, 无暗区, 均匀性好
Innovative microstructure design, no bright spots, no dark areas, good uniformity
- ◆ 出色的光学设计可满足长灯箱均匀性要求
Excellent optical design can meet long light box uniformity requirement
- ◆ 防水等级IP67, 16个模组每串
IP Level: IP67, 16 modules per Chain

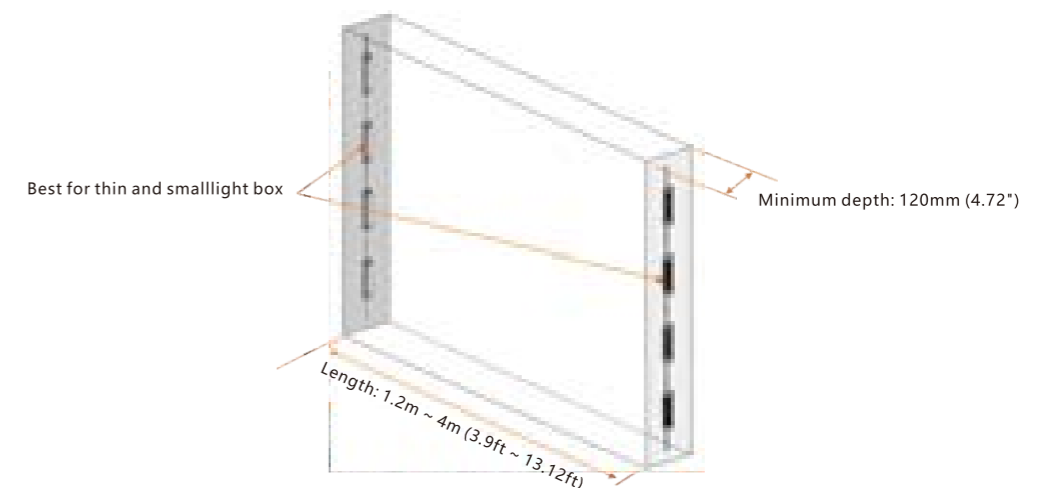
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 24V
- ◆ 功率(Power): 7.2W / pcs
- ◆ 光通量(Luminous): 780ml / pcs
- ◆ 寿命(lifetime): > 70000(hours)
- ◆ 颜色(Color): ○ ○ ○

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



M29EW31D

最佳应用: 2-4m长的双面灯箱
Best for: 2-4m long double-sided light box



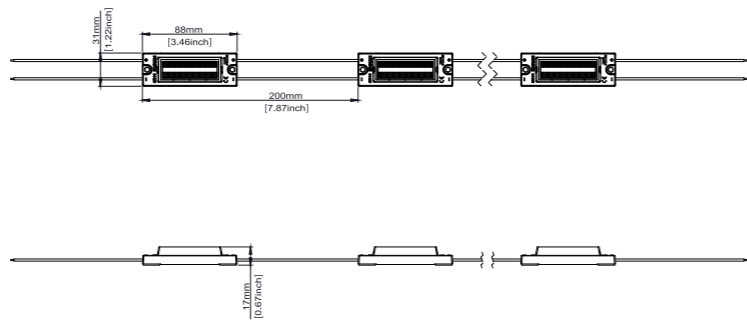
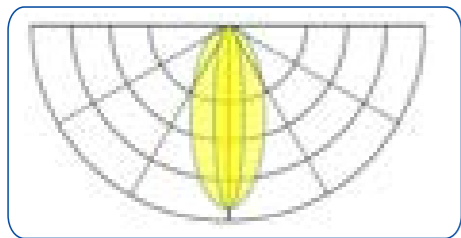
产品特点(Product Features)

- ◆ 创新的侧发光光学透镜设计, 可满足长度0.5米-2米, 深度大于6cm灯箱的均匀度要求
Innovation optics design can get excellent homogeneous requirement - 0.5m ~ 2m light box
- ◆ 采用欧司朗LED灯珠
Powered by OSRAM LED

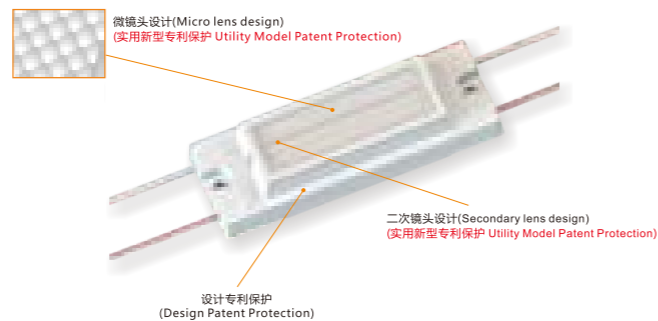
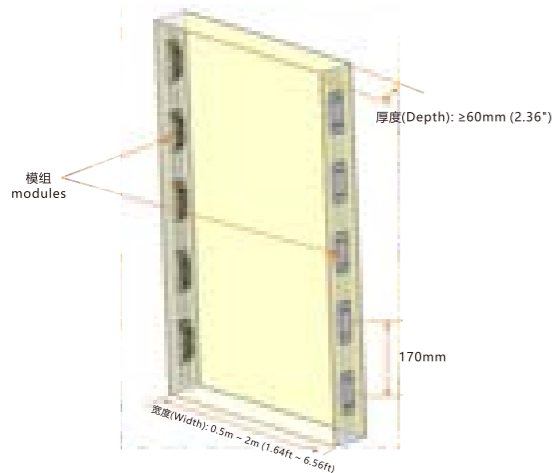
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 2.7W / pcs
- ◆ 光通量(Luminous): 270ml / pcs
- ◆ 寿命(lifetime): > 70000(hours)

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



M21CW24D

最佳应用: 12-30cm厚度双面灯箱
Best for: 12-30 cm thickness of double side light boxes



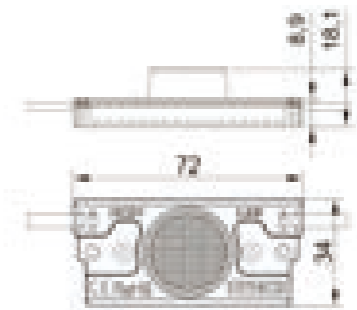
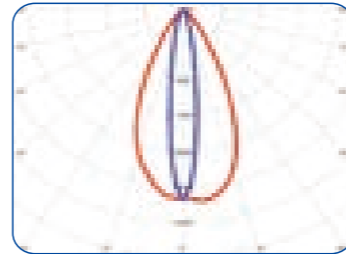
产品特点(Product Features)

- ◆ 12x56°发光角度, 高亮度, 高透光率透镜
12x56°Beam Angle, High Brightness, High Transmittance Lens.
- ◆ 应用在双面灯箱
Used in double side light boxes
- ◆ 防水等级IP66, 20个模组每串
IP Level: IP66, 20 modules per Chain

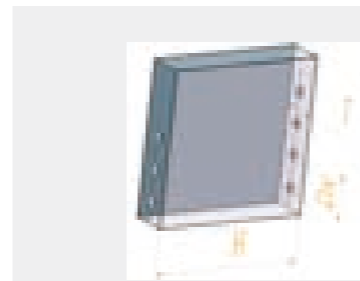
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 2.8W / pcs
- ◆ 光通量(Luminous): 240ml / pcs
- ◆ 寿命(lifetime): > 50000(hours)
- ◆ 颜色(Color): ○ ○

光学数据分布(Optical Data Distribution)



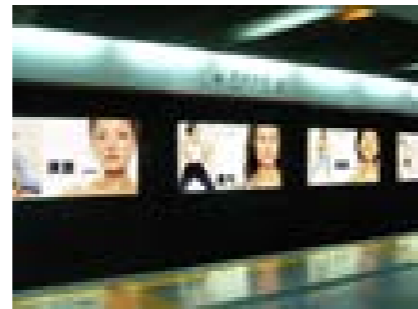
应用说明(Application Notes)



Thickness of light box	Length of light box	Dy	Surface illuminance
T= 120 mm	H<1000 mm	100 mm	>2400 lux
T=150 mm	H<1500 mm	100 mm	>1600 lux
T=200 mm	H<1800 mm	120 mm	>1100 lux
T=250 mm	H<2000 mm	120 mm	>1000 lux
T=300 mm	H<2500 mm	120 mm	>750 lux

M21GW24D

最佳应用: 12-30cm厚度双面灯箱
Best for: 12-30 cm thickness of double side light boxes



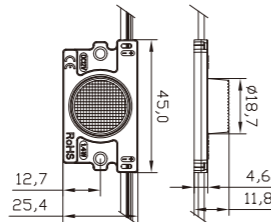
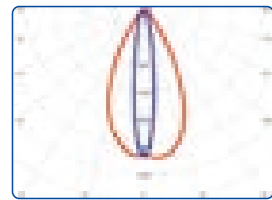
产品特点(Product Features)

- ◆ 18x50°发光角度, 高亮度, 高透光率透镜
18x50°Beam Angle, High Brightness, High Transmittance Lens.
- ◆ 应用在较厚的双面灯箱
Used in thicker double side light boxes
- ◆ 防水等级IP66, 20个模组每串
IP Level: IP66, 20 modules per Chain

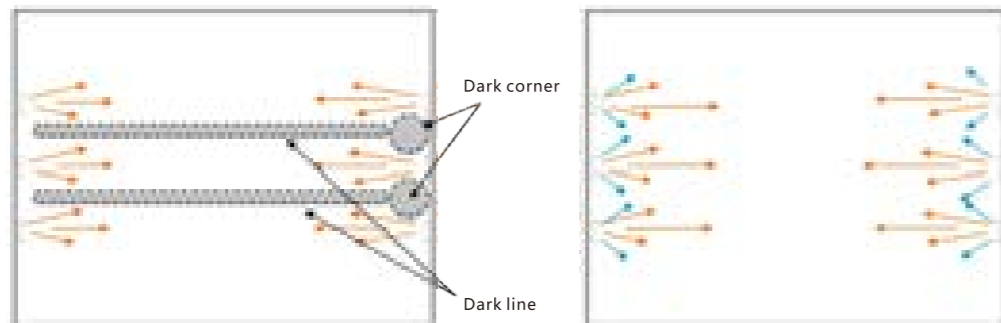
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 1.4W / pcs
- ◆ 光通量(Luminous): 130lm / pcs
- ◆ 寿命(lifetime): > 30000(hours)
- ◆ 颜色(Color): ○ ○

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



Normal sidelighting optics design

Innovation sidelighting optics design

M21HW24D

最佳应用: 15-25cm厚度双面灯箱
Best for: 15-25 cm thickness of double side light boxes



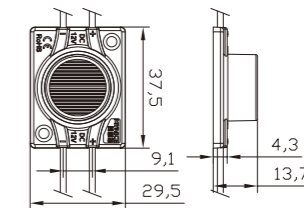
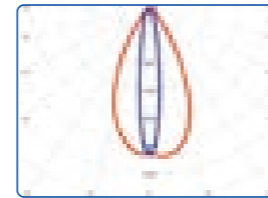
产品特点(Product Features)

- ◆ 18x45°发光角度, 高亮度, 高透光率透镜
18x45°Beam Angle, High Brightness, High Transmittance Lens.
- ◆ 应用在较厚的双面灯箱
Used in thicker double side light boxes
- ◆ 防水等级IP66, 20个模组每串
IP Level: IP66, 20 modules per Chain

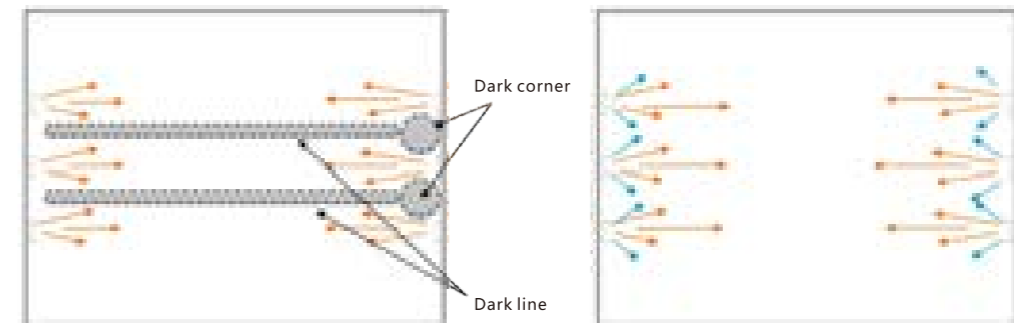
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 2.4W / pcs
- ◆ 光通量(Luminous): 200lm / pcs
- ◆ 寿命(lifetime): > 30000(hours)
- ◆ 颜色(Color): ○ ○

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



Normal sidelighting optics design

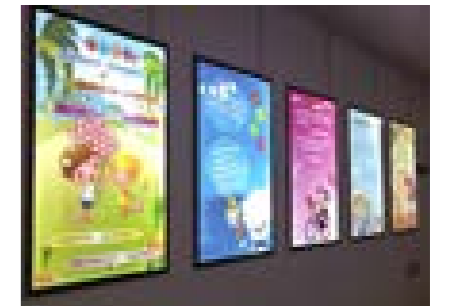
Innovation sidelighting optics design

常规模组系列

NORMAL MODULES SERIES

M23AA17Q

最佳应用: 15-25cm厚度双面灯箱
Best for: 15-25 cm thickness of double side light boxes



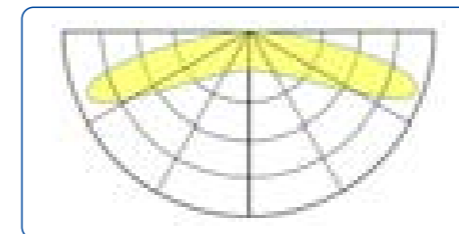
产品特点(Product Features)

- ◆ 蝙蝠翼光学透镜设计, 以实现良好的光学性能
Good optics (bat-wing lens) design to achieve good optical performance
- ◆ 最适合50mm至250mm深度(2英寸至10英寸)
best for 50mm to 250mm depth (2inch to 10inch)
- ◆ 5年质保
5 years warranty

技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 0.72W / pcs
- ◆ 光通量(Luminous): 29ml / pcs
- ◆ 寿命(lifetime): > 50000(hours)

光学数据分布(Optical Data Distribution)

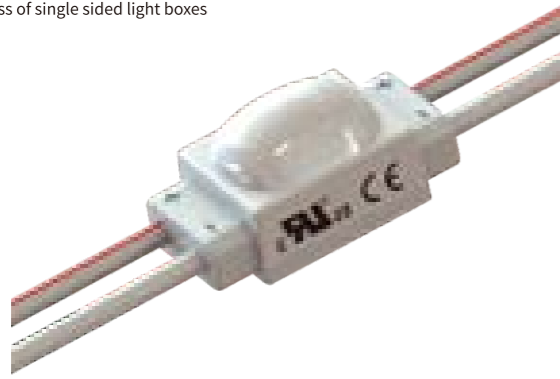


应用说明(Application Notes)

Product Description	Light color (designation)	Color (CCT, wavelength)	Typical Brightness (lumen/color)	Typical Brightness (lumen/module)
M23AA17Q	R/G/B	Red: 620-625nm Green: 520-530nm Blue: 460-470nm	Red: 8lm Green: 16lm Blue: 5lm	29

M21GW02A

最佳应用: 12-30cm厚度单面灯箱
Best for: 12-30 cm thickness of single sided light boxes



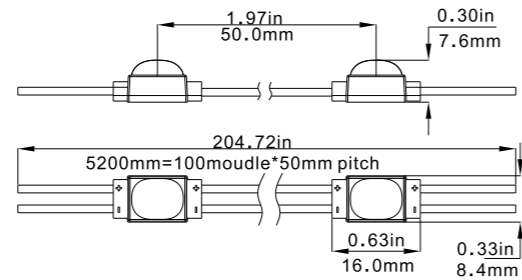
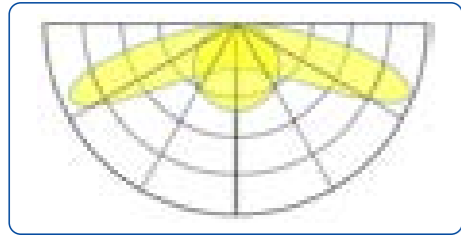
产品特点(Product Features)

- ◆ 新型椭圆形光斑设计, 均匀度高
New elliptical spot with high uniformity
- ◆ 尺寸小巧, 应用灵活
Small size and flexible application
- ◆ 防水等级IP67, 最大100个模组每串
IP Level: IP67, Max100 modules per Chain

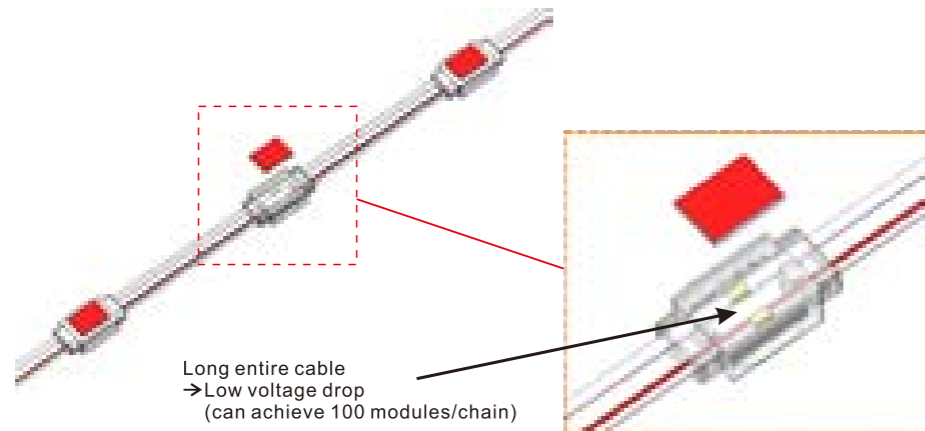
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 0.36W / pcs
- ◆ 光通量(Luminous): 41lm / pcs
- ◆ 寿命(lifetime): > 50000(hours)
- ◆ 颜色(Color): ● ● ● ● ● ●

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



M23GW28A

最佳应用: >5cm厚度的单面灯箱
Best for: >5 cm thickness of single sided light boxes



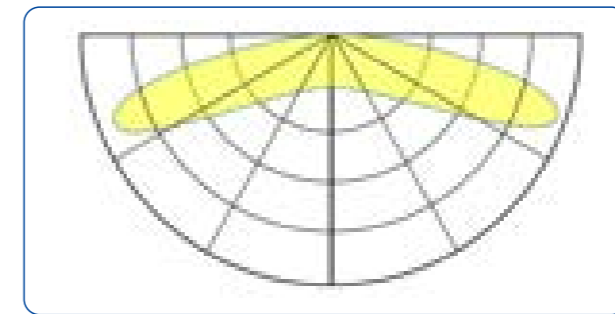
产品特点(Product Features)

- ◆ 蝙蝠翼型光学透镜设计, 可使发光表面光学效果更加均匀
Good optics (bat-wing lens) design to achieve good optical performance
- ◆ 最适合50mm至250mm深度(2英寸至10英寸)
best for 50mm to 250mm depth (2inch to 10inch)
- ◆ 防水等级IP66, 20个模组每串
IP Level: IP66, 20 modules per Chain
- ◆ 5年质保
5 years warranty

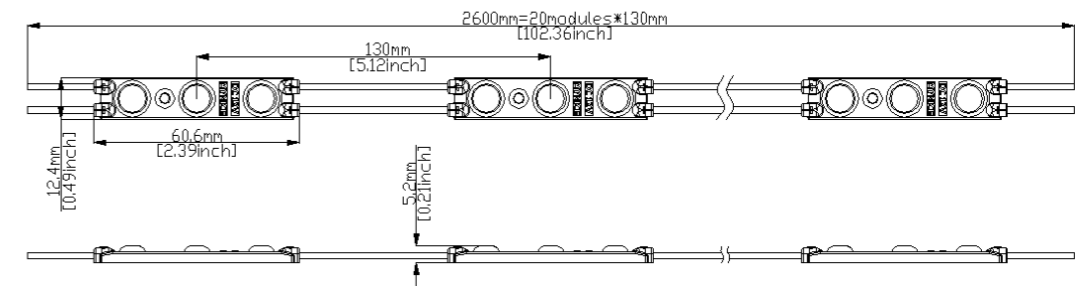
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 0.72 or 1.2W / pcs
- ◆ 光通量(Luminous): 69 or 114lm / pcs
- ◆ 寿命(lifetime): > 50000(hours)

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



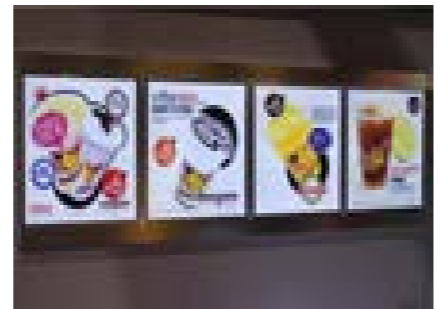
M23GW19A

NEW

M23GW19A-H

NEW

最佳应用: 5-15cm厚度的超薄灯箱
Best for: 5-15cm thickness of ultra-thin light box



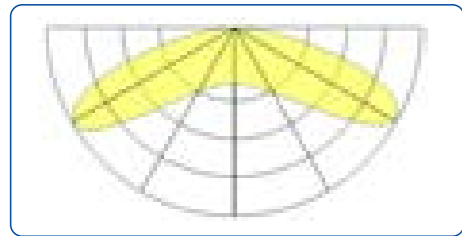
产品特点(Product Features)

- ◆ 新的蝙蝠翼透镜设计可以得到更加均匀的光学效果。
New bat-wing lens design to get good optical performance.
- ◆ 尺寸小巧, 应用灵活
Small size and flexible application
- ◆ 防水等级IP66. 最大20个模组每串
IP Level: IP66, Max20 modules per Chain

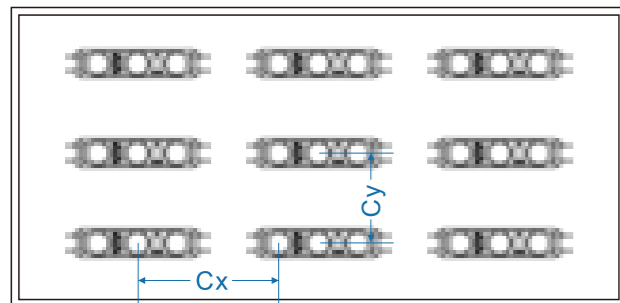
技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 1.5(-H:1.2)W / pcs
- ◆ 光通量(Luminous): 150(-H:180)Lm / pcs
- ◆ 寿命(lifetime): > 50000(hours)
- ◆ 颜色(Color): ● ● ● ● ● ●

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



产品 Product	灯箱深度 Depth	Cx	Cy	表面照度 Surface illuminance
M23GW19A	80mm	120mm	100mm	3500Lux
	100mm	140mm	130mm	2200Lux
	120mm	155mm	150mm	1600Lux
M23GW19A-H	80mm	120mm	100mm	4200Lux
	100mm	140mm	130mm	2600Lux
	120mm	155mm	150mm	1900Lux

M23GW18A



最佳应用: 5-15 cm 厚度的灯箱和发光字
Best for: 5-15 cm light boxes and channel letters



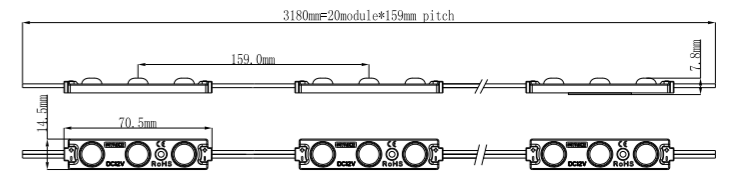
产品特点(Product Features)

- ◆ 160°发光角度, 高效率, 高均匀性透镜
160°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 超大的发光角度, 应用在超薄灯箱和发光字
Bigger Beam Angle for ultra-thin light box and channel letters
- ◆ 防水等级IP65, 20个模组每串
IP Level: IP65, 20 modules per Chain

技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 0.72/1.2W / pcs
- ◆ 光通量(Luminous): 70/105lm / pcs
- ◆ 寿命(lifetime): > 30000(hours)
- ◆ 颜色(Color): ● ● ● ● ● ●

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



Height	Dx	Dy	Surface illuminance
H=80 mm	130 mm	130 mm	1678 lux
H=100 mm	150 mm	150 mm	1260 lux
H=120 mm	160 mm	160 mm	1100 lux
H=150 mm	200 mm	200 mm	710 lux
H=180 mm	200 mm	200 mm	680 lux

M22GW42D

最佳应用: 8-25 cm 厚度的灯箱和发光字
Best for: 8-25 cm light boxes and channel letters



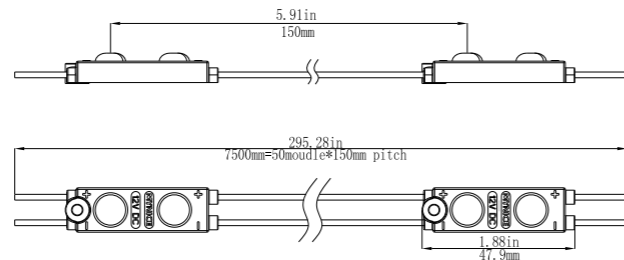
产品特点(Product Features)

- ◆ 160°发光角度, 高效率, 高均匀性透镜
160°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆ 防水等级IP66, 50个模组每串
IP Level: IP66, 50 modules per Chain

技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 0.72W / pcs
- ◆ 光通量(Luminous): 72ml / pcs
- ◆ 寿命(lifetime) > 50000(hours)
- ◆ 颜色(Color): ○ ○

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



Height	Dx	Dy	Surface illuminance
H=80 mm	100 mm	100 mm	1950 lux
H=100 mm	120 mm	120 mm	1350 lux
H=120 mm	150 mm	150 mm	860 lux
H=135 mm	150 mm	150 mm	860 lux
H=150 mm	150 mm	150 mm	860 lux

M23GW42D

最佳应用: 8-25 cm 厚度的灯箱和发光字
Best for: 8-25 cm light boxes and channel letters



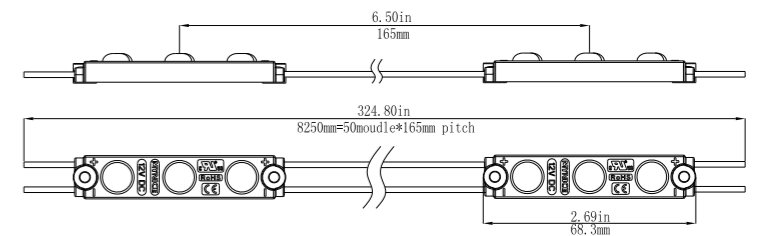
产品特点(Product Features)

- ◆ 160°发光角度, 高效率, 高均匀性透镜
160°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆ 防水等级IP66, 50个模组每串
IP Level: IP66, 50 modules per Chain

技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 1.2W / pcs
- ◆ 光通量(Luminous): 120ml / pcs
- ◆ 寿命(lifetime) > 50000(hours)
- ◆ 颜色(Color): ○ ○ ● ● ● ●

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



Height	Dx	Dy	Surface illuminance
H=80 mm	100 mm	100 mm	1950 lux
H=100 mm	120 mm	120 mm	1350 lux
H=120 mm	150 mm	150 mm	860 lux
H=135 mm	150 mm	150 mm	860 lux
H=150 mm	150 mm	150 mm	860 lux

M33GW07D

最佳应用: 4-12 cm 厚度的小型或微型灯箱和发光字
Best for: 4-12 cm thickness of small or miniature light boxes and channel letters



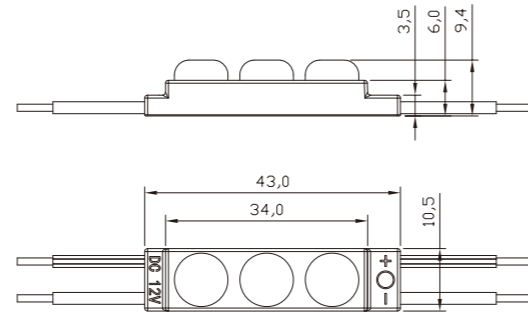
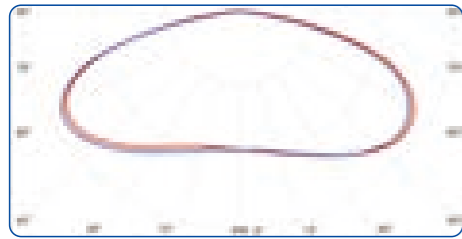
产品特点(Product Features)

- ◆ 160°发光角度, 高亮度, 高透光率透镜
160°Beam Angle, High Brightness, High Transmittance Lens
- ◆ 小的产品尺寸, 应用在微型发光字
Small size for miniature channel letters
- ◆ 防水等级IP68, 50个模组每串
IP Level: IP68, 50 modules per Chain

技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 0.72W / pcs
- ◆ 光通量(Luminous): 82Lm / pcs
- ◆ 寿命(lifetime): > 50000(hours)
- ◆ 颜色(Color): ○ ○ ○ ○ ○ ○

光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



Height	Dx	Dy	Surface illuminance
H=40 mm	60 mm	60 mm	5300 lux
H=60 mm	90 mm	80 mm	2600 lux
H=80 mm	120 mm	110 mm	1500 lux
H=100 mm	140 mm	130 mm	1100 lux
H=120 mm	160 mm	150 mm	850 lux

M34GW07D

最佳应用: 4-15 cm 厚度的小型或微型灯箱和发光字
Best for: 4-15 cm thickness of small or micro-light boxes and channel letters



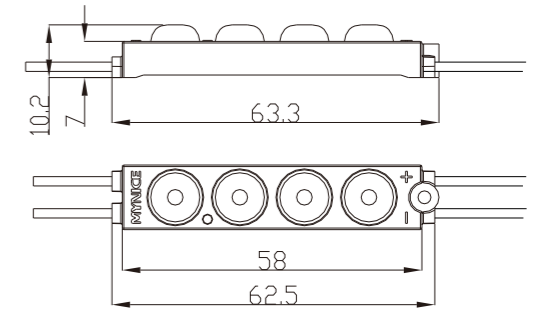
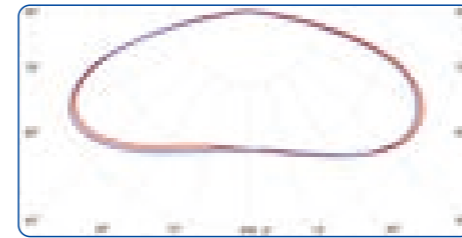
产品特点(Product Features)

- ◆ 160°发光角度, 高效率, 高均匀性透镜
160°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆ 防水等级IP66, 30个模组每串
IP Level: IP66, 30 modules per Chain

技术参数(Product features)

- ◆ 输入电压(Input Voltage): DC 12V
- ◆ 功率(Power): 0.72W / pcs
- ◆ 光通量(Luminous): 125ml / pcs
- ◆ 寿命(lifetime): > 50000(hours)
- ◆ 颜色(Color): ○

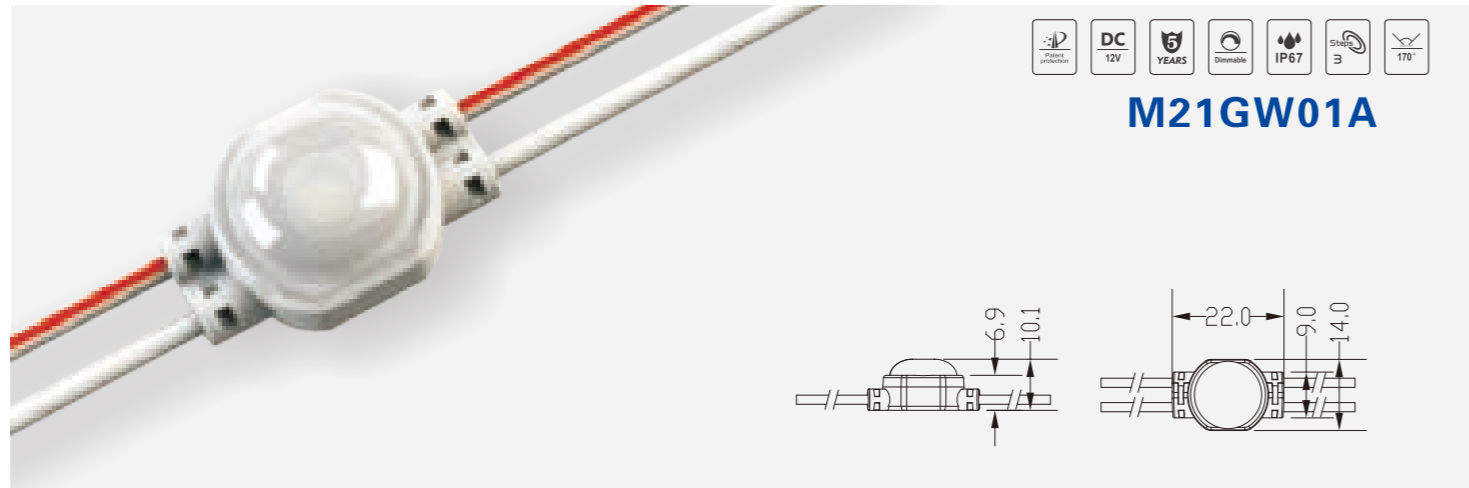
光学数据分布(Optical Data Distribution)



应用说明(Application Notes)



Height	Dx	Dy	Surface illuminance
H=60 mm	90 mm	80 mm	3900 lux
H=80 mm	120 mm	110 mm	2250 lux
H=100 mm	140 mm	130 mm	1650 lux
H=120 mm	160 mm	150 mm	1275 lux



M21GW01A

最佳应用: 2.5-4 cm 厚度的超薄灯箱和发光字
Best for: 2.5-4 cm thickness of ultra-thin boxes and channel letters

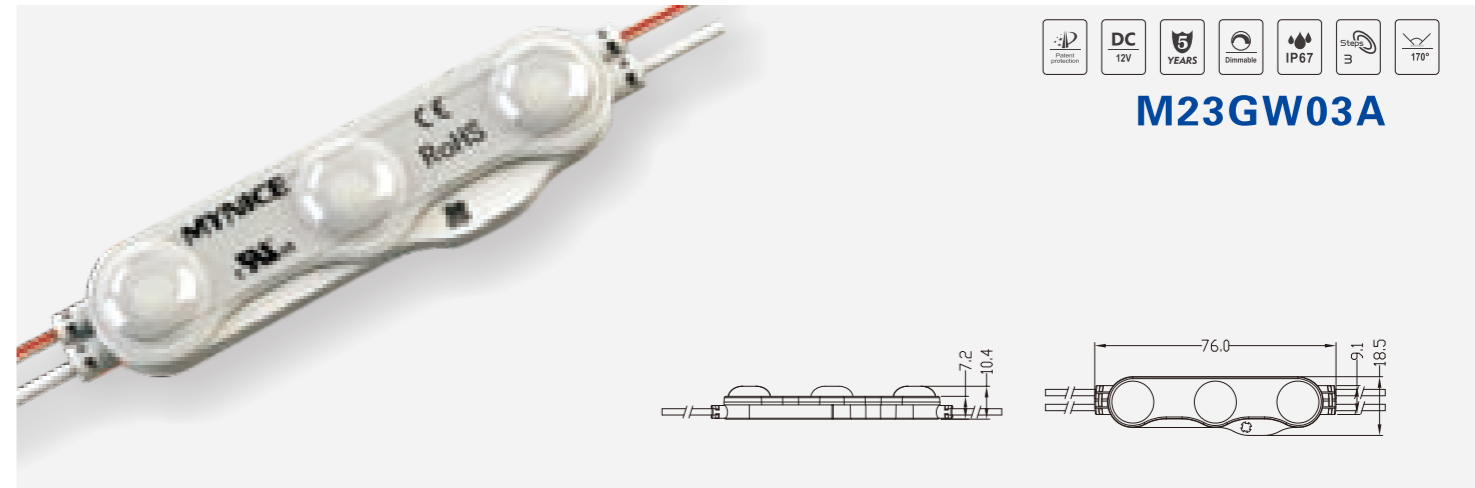
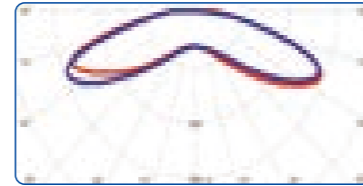
▼产品优势(Product Advantages):

- ◆170°发光角度, 高效率, 高均匀性透镜
170°Beam Angle, High Efficiency, High Uniformity Lens
- ◆超大的发光角度, 应用在超薄灯箱
Bigger Beam Angle for ultra-thin light box
- ◆防水等级IP67, 最大100个模组每串
IP Level: IP67, Max100 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 0.5W / pcs
- ◆光通量(Luminous): 47lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○

▼光数据分布(Optical Data Distribution)



M23GW03A

最佳应用: 7-10 cm 厚度的超薄灯箱和发光字
Best for: 7-10 cm thickness of ultra-thin boxes and channel letters

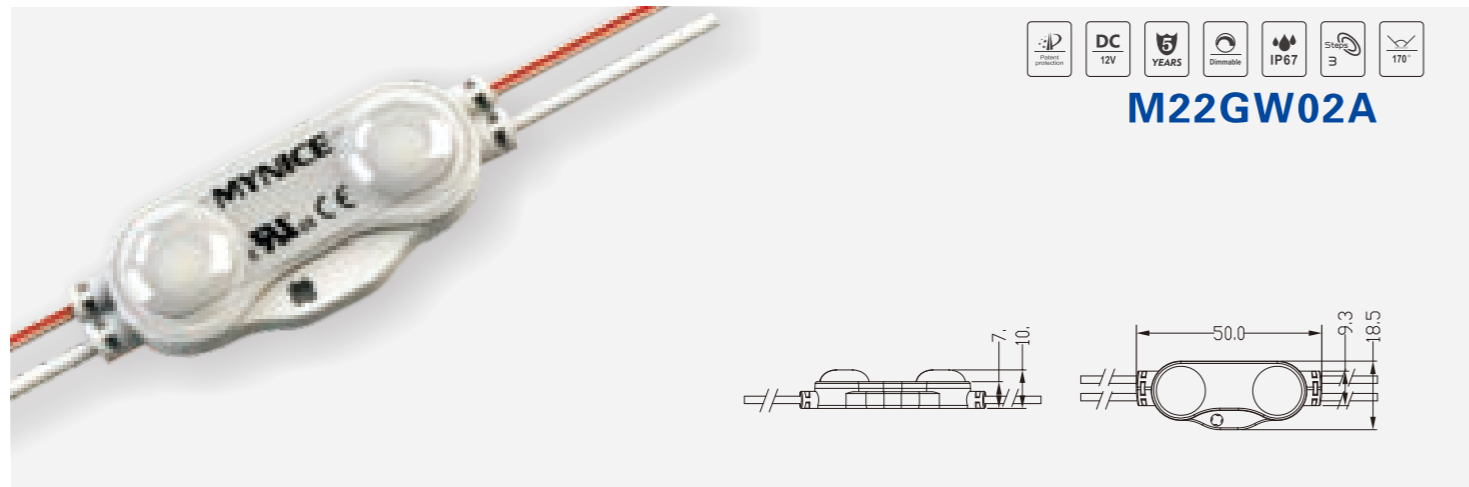
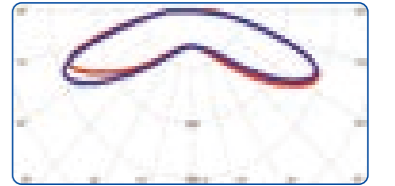
▼产品优势(Product Advantages):

- ◆170°发光角度, 高效率, 高均匀性透镜
170°Beam Angle, High Efficiency, High Uniformity Lens
- ◆超大的发光角度, 应用在超薄灯箱
Bigger Beam Angle for ultra-thin light box
- ◆防水等级IP67, 最大50个模组每串
IP Level: IP67, Max50 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 1.5W / pcs
- ◆光通量(Luminous): 140lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ● ● ● ● ● ●

▼光数据分布(Optical Data Distribution)



M22GW02A

最佳应用: 4-8 cm 厚度的超薄灯箱和发光字
Best for: 4-8 cm thickness of ultra-thin boxes and channel letters

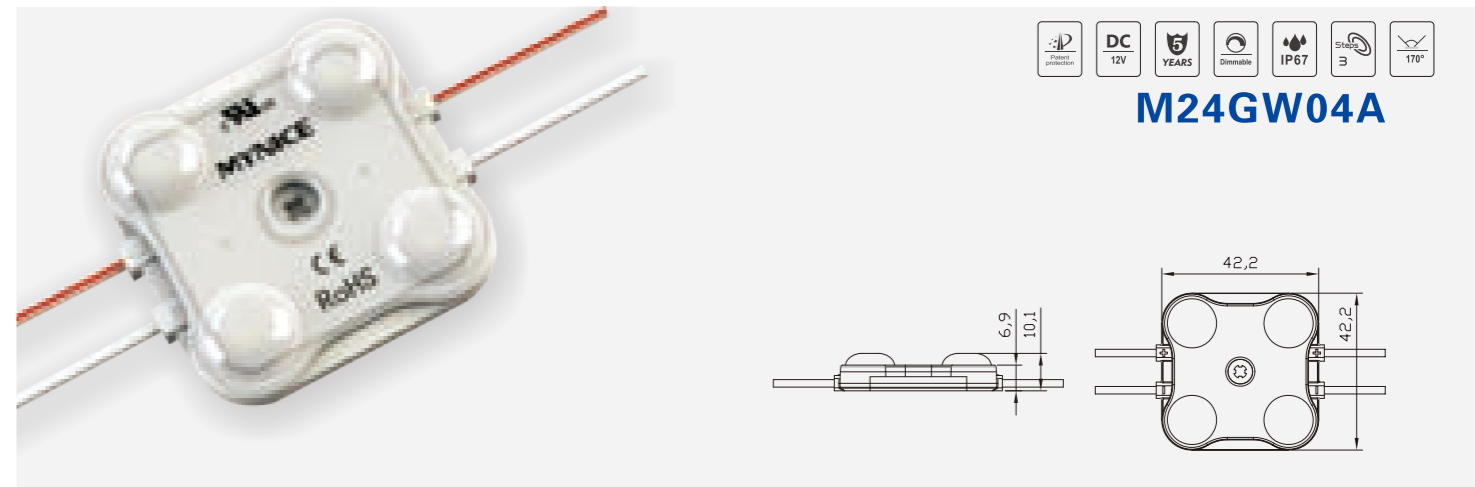
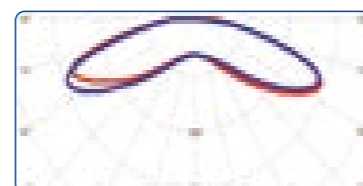
▼产品优势(Product Advantages):

- ◆170°发光角度, 高效率, 高均匀性透镜
170°Beam Angle, High Efficiency, High Uniformity Lens
- ◆超大的发光角度, 应用在超薄灯箱
Bigger Beam Angle for ultra-thin light box
- ◆防水等级IP67, 最大75个模组每串
IP Level: IP67, Max75 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 1.0W / pcs
- ◆光通量(Luminous): 95lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ● ● ● ● ● ●

▼光数据分布(Optical Data Distribution)



M24GW04A

最佳应用: 8-15 cm 厚度的超薄灯箱和发光字
Best for: 8-15 cm thickness of ultra-thin boxes and channel letters

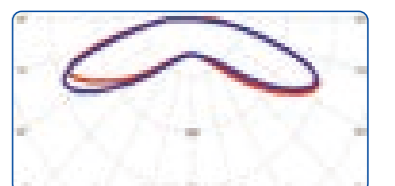
▼产品优势(Product Advantages):

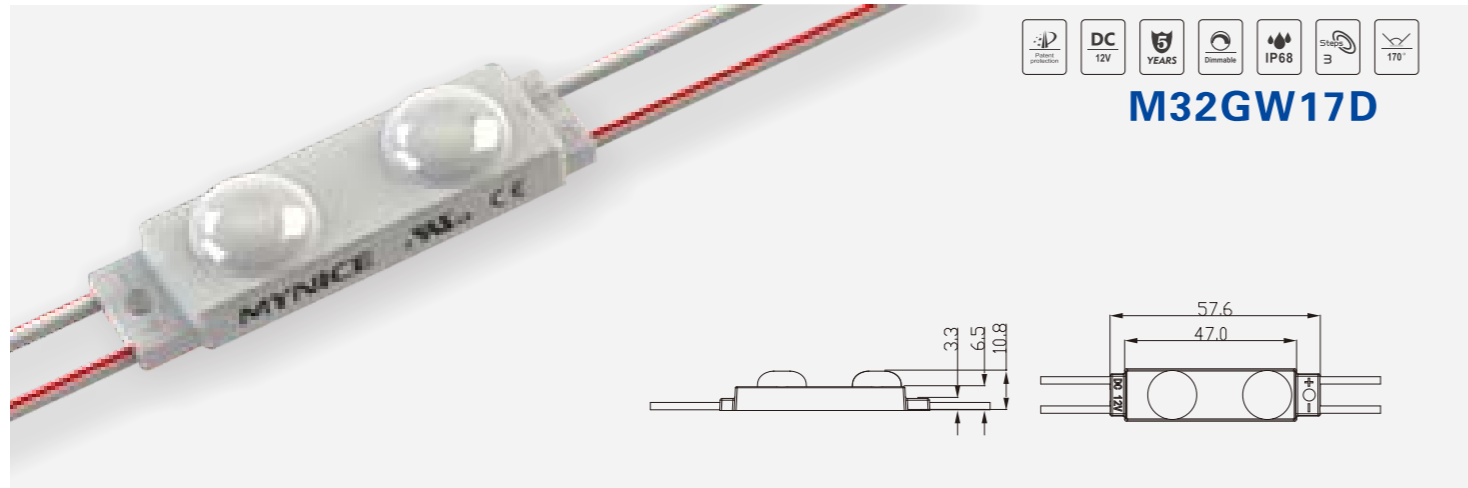
- ◆170°发光角度, 高效率, 高均匀性透镜
170°Beam Angle, High Efficiency, High Uniformity Lens
- ◆超大的发光角度, 应用在超薄灯箱
Bigger Beam Angle for ultra-thin light box
- ◆防水等级IP67, 30个模组每串
IP Level: IP67, 30 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 2W / pcs
- ◆光通量(Luminous): 190lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ● ● ● ● ● ●

▼光数据分布(Optical Data Distribution)





M32GW17D

最佳应用: 4-8 cm 厚度的超薄灯箱和发光字
Best for: 4-8 cm thickness of ultra-thin boxes and channel letters

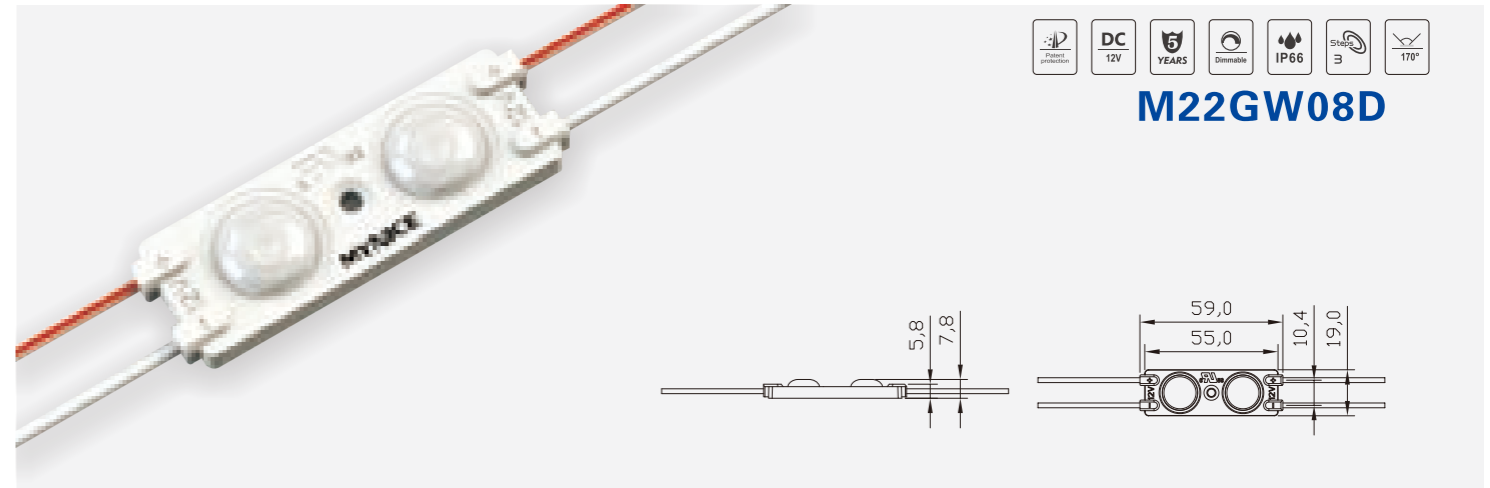
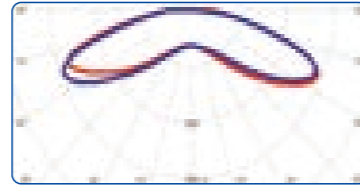
▼产品优势(Product Advantages):

- ◆170°发光角度, 高效率, 高均匀性透镜
170°Beam Angle, High Efficiency, High Uniformity Lens
- ◆超大的发光角度, 应用在超薄灯箱
Bigger Beam Angle for ultra-thin light box
- ◆防水等级IP68, 最大75个模组每串
IP Level: IP68, Max 75 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 0.8W / pcs
- ◆光通量(Luminous): 84lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color):

▼光数据分布(Optical Data Distribution)



M22GW08D

最佳应用: 8-15 cm 厚度的超薄灯箱和发光字
Best for: 8-15 cm thickness of ultra-thin boxes and channel letters

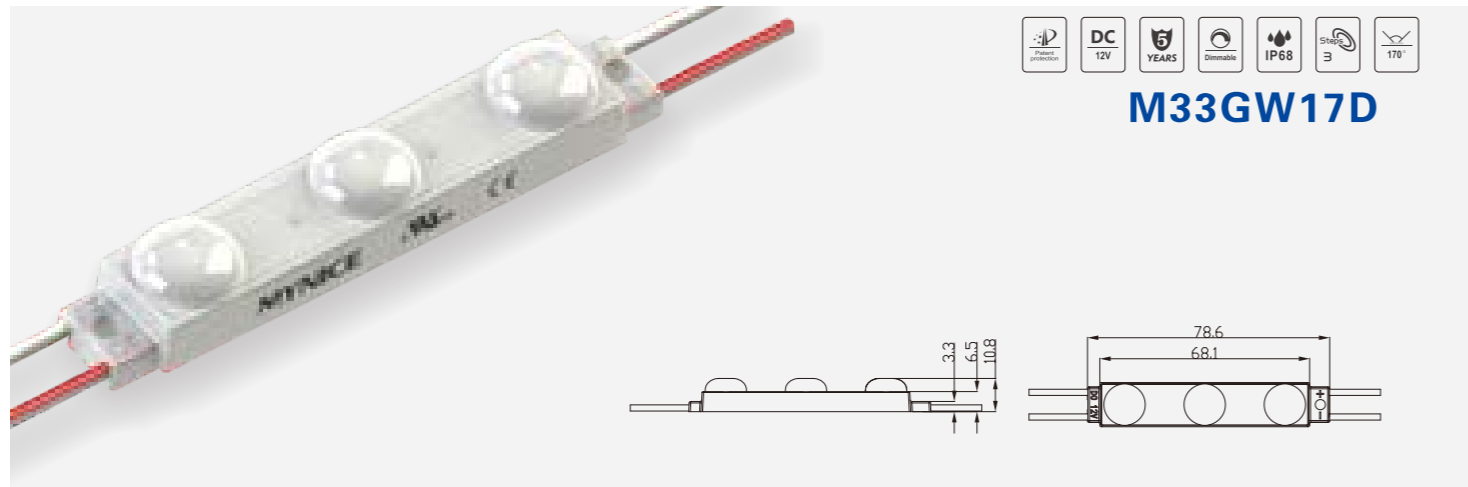
▼产品优势(Product Advantages):

- ◆170°发光角度, 高亮度, 高光效
170°Beam Angle, High Brightness, High Optical Efficiency
- ◆应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆防水等级IP66, 20个模组每串
IP Level: IP66, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 1.4W / pcs
- ◆光通量(Luminous): 140lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color):

▼光数据分布(Optical Data Distribution)



M33GW17D

最佳应用: 7-12 cm 厚度的超薄灯箱和发光字
Best for: 7-12 cm thickness of ultra-thin boxes and channel letters

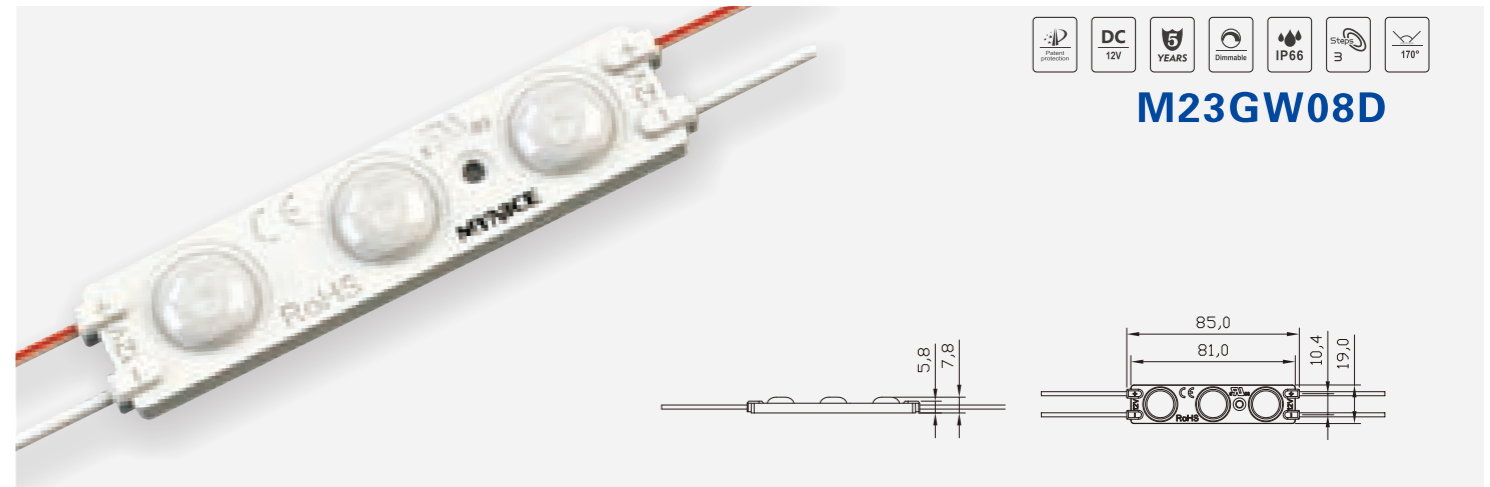
▼产品优势(Product Advantages):

- ◆170°发光角度, 高效率, 高均匀性透镜
170°Beam Angle, High Efficiency, High Uniformity Lens
- ◆超大的发光角度, 应用在超薄灯箱
Bigger Beam Angle for ultra-thin light box
- ◆防水等级IP68, 50个模组每串
IP Level: IP68, 50 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 1.2W / pcs
- ◆光通量(Luminous): 126lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color):

▼光数据分布(Optical Data Distribution)



M23GW08D

最佳应用: 10-25 cm 厚度的超薄灯箱和发光字
Best for: 10-25 cm thickness of ultra-thin boxes and channel letters

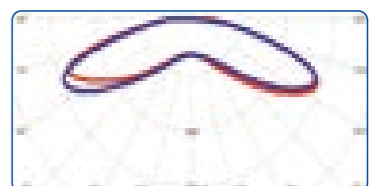
▼产品优势(Product Advantages):

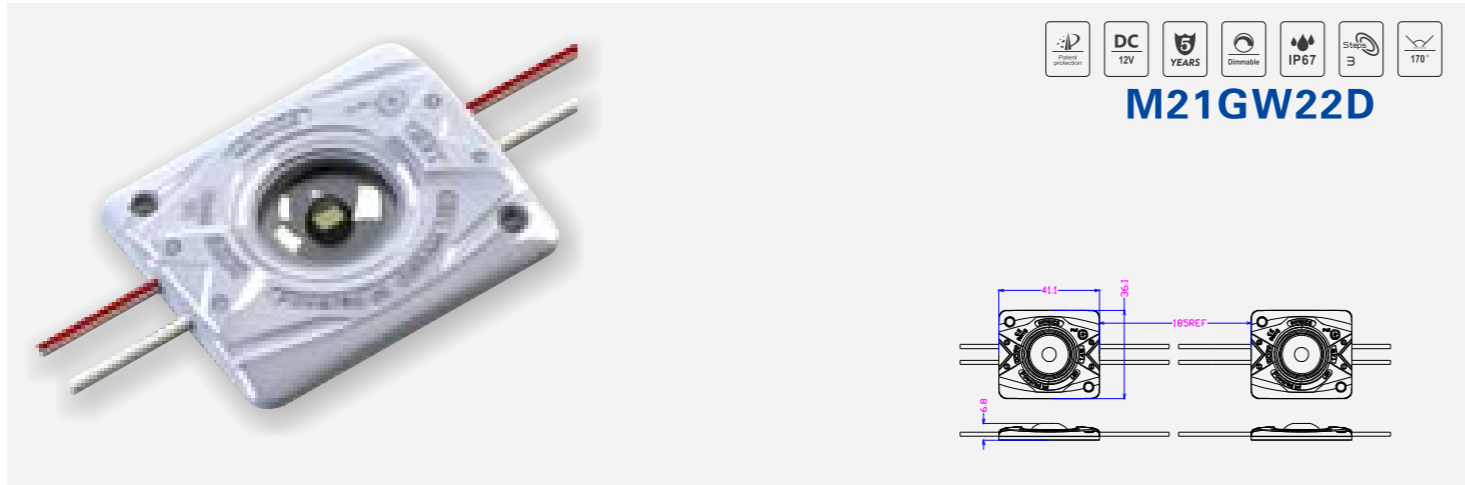
- ◆170°发光角度, 高亮度, 高光效
170°Beam Angle, High Brightness, High Optical Efficiency
- ◆应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆防水等级IP66, 20个模组每串
IP Level: IP66, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 2.1W / pcs
- ◆光通量(Luminous): 210lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color):

▼光数据分布(Optical Data Distribution)





最佳应用: 6-15 cm 厚度单面灯箱
Best for: 6-15cm thickness of single-sided light boxes

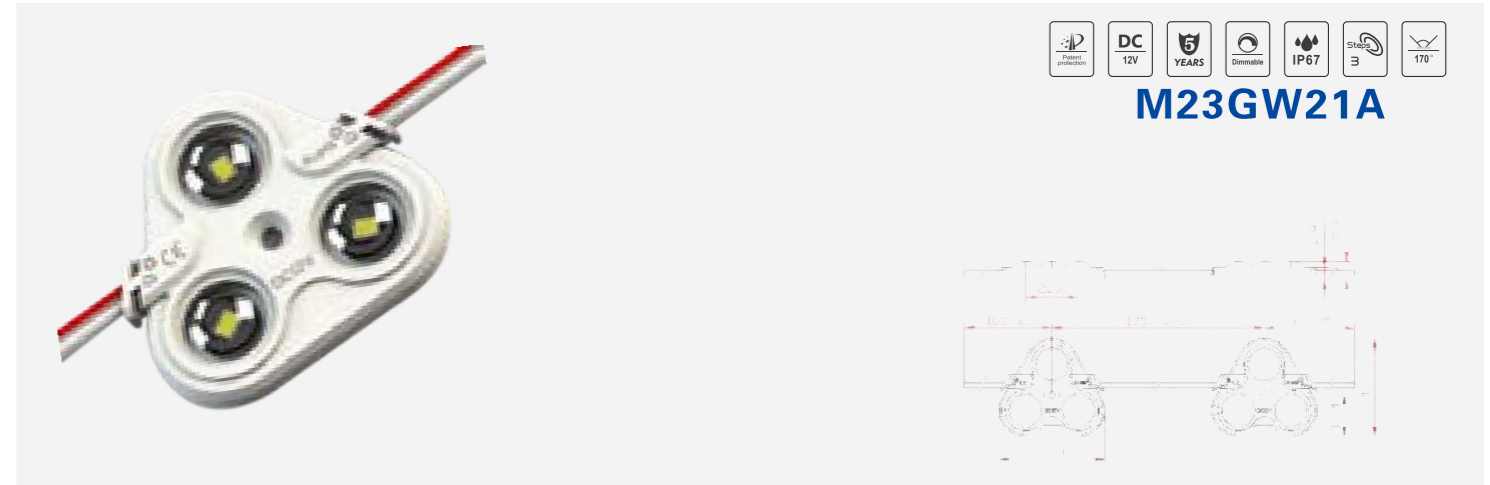
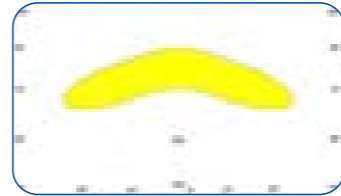
▼产品优势(Product Advantages):

- ◆170°发光角度, 高效率, 高均匀性透镜
170°Beam Angle, High Efficiency, High Uniformity Lens
- ◆适用于商场, 地铁, 飞机场内大型单面灯箱
Suitable for shopping malls, subways, airports and large single-sided light boxes
- ◆防水等级IP67, 30个模组每串
IP Level: IP67, 30 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 1.4W / pcs
- ◆光通量(Luminous): 130lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ○

▼光数据分布(Optical Data Distribution)



最佳应用: 10-25 cm 厚度的超薄灯箱和发光字
Best for: 10-25 cm thickness of ultra-thin boxes and channel letters

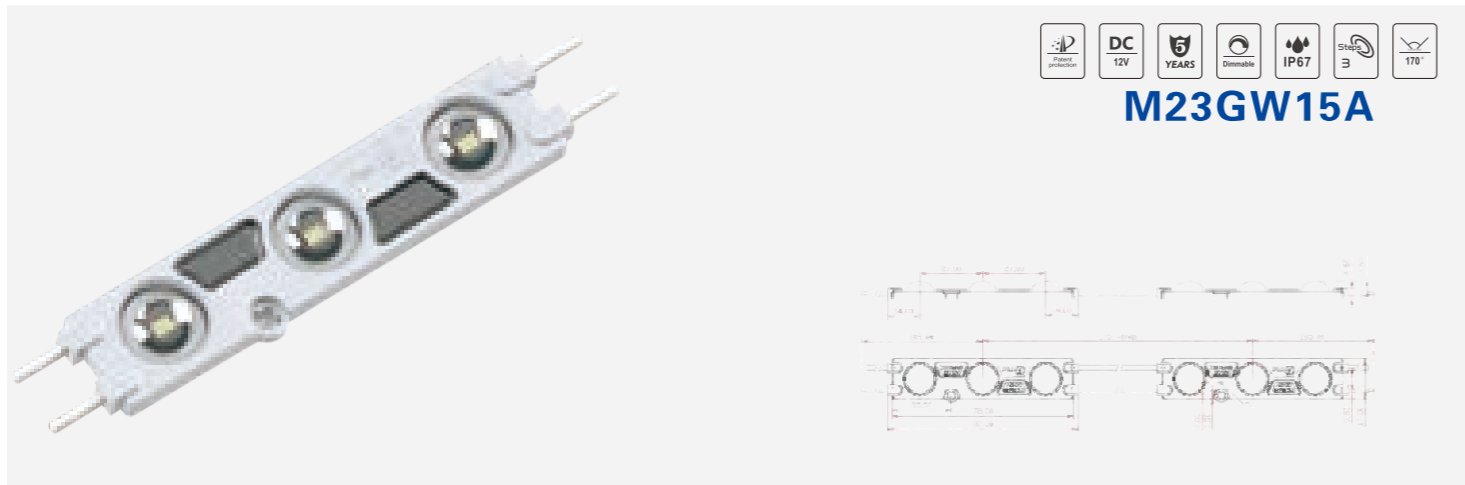
▼产品优势(Product Advantages):

- ◆160°发光角度, 高效率, 高阿均匀性透镜
160°Beam Angle, High Efficiency, High Uniformity Lens
- ◆超大的发光角度, 应用在超薄灯箱和发光字
Bigger Beam Angle for ultra-thin light box
- ◆防水等级IP67, 20个模组每串
IP Level: IP67, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 1.44W / pcs
- ◆光通量(Luminous): 140lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ○

▼光数据分布(Optical Data Distribution)



最佳应用: 8-20 cm 厚度的超薄灯箱和发光字
Best for: 8-20 cm thickness of ultra-thin boxes and channel letters

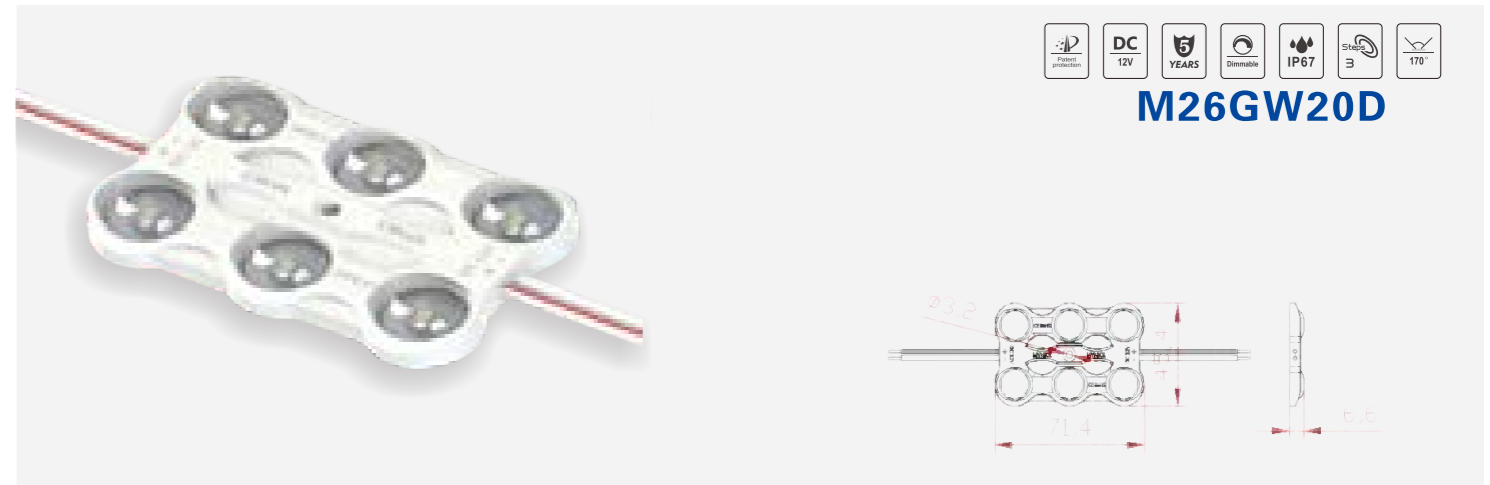
▼产品优势(Product Advantages):

- ◆160°发光角度, 高效率, 高均匀性透镜
160°Beam Angle, High Efficiency, High Uniformity Lens
- ◆超大的发光角度, 应用在超薄灯箱和发光字
Bigger Beam Angle for ultra-thin light box
- ◆防水等级IP67, 20个模组每串
IP Level: IP67, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 1.44W / pcs
- ◆光通量(Luminous): 135lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ○

▼光数据分布(Optical Data Distribution)



最佳应用: 15-35 cm 厚度的灯箱和发光字
Best for: 15-35 cm ultra-thin light boxes and channel letters

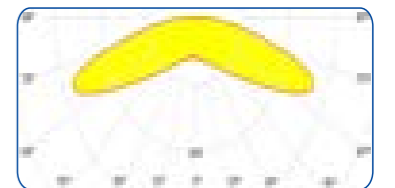
▼产品优势(Product Advantages):

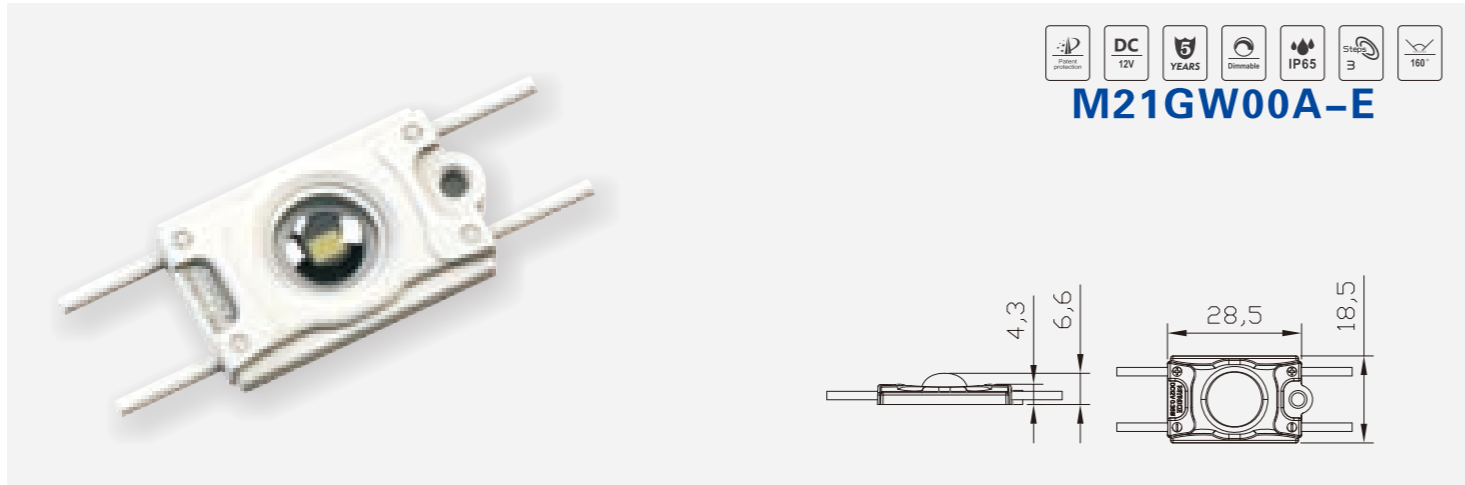
- ◆170°发光角度, 高效率, 高均匀性透镜
170°Beam Angle, High Efficiency, High Uniformity Lens
- ◆超大的发光角度, 应用在超薄灯箱和发光字
Bigger Beam Angle for ultra-thin light box
- ◆防水等级IP66, 20个模组每串
IP Level: IP66, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 3.0W / pcs
- ◆光通量(Luminous): 290lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ○

▼光数据分布(Optical Data Distribution)





DC 12V 5 YEARS Dimmable IP65 SMD 3 160°
M21GW00A-E

最佳应用: 5-10 cm 厚度的超薄灯箱和发光字
Best for: 5-10 cm thickness of ultra-thin boxes and channel letters

▼产品优势(Product Advantages):

- ◆160°发光角度, 高亮度, 高光效
160°Beam Angle, High Brightness, High Optical Efficiency
- ◆应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆防水等级IP65, 20个模组每串
IP Level: IP65, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 0.36W / pcs
- ◆光通量(Luminous): 35lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○

▼光数据分布(Optical Data Distribution)



DC 12V 5 YEARS Dimmable IP65 SMD 3 160°
M23GW12A-E

最佳应用: 10-20 cm 厚度的超薄灯箱和发光字
Best for: 10-20 cm thickness of ultra-thin boxes and channel letters

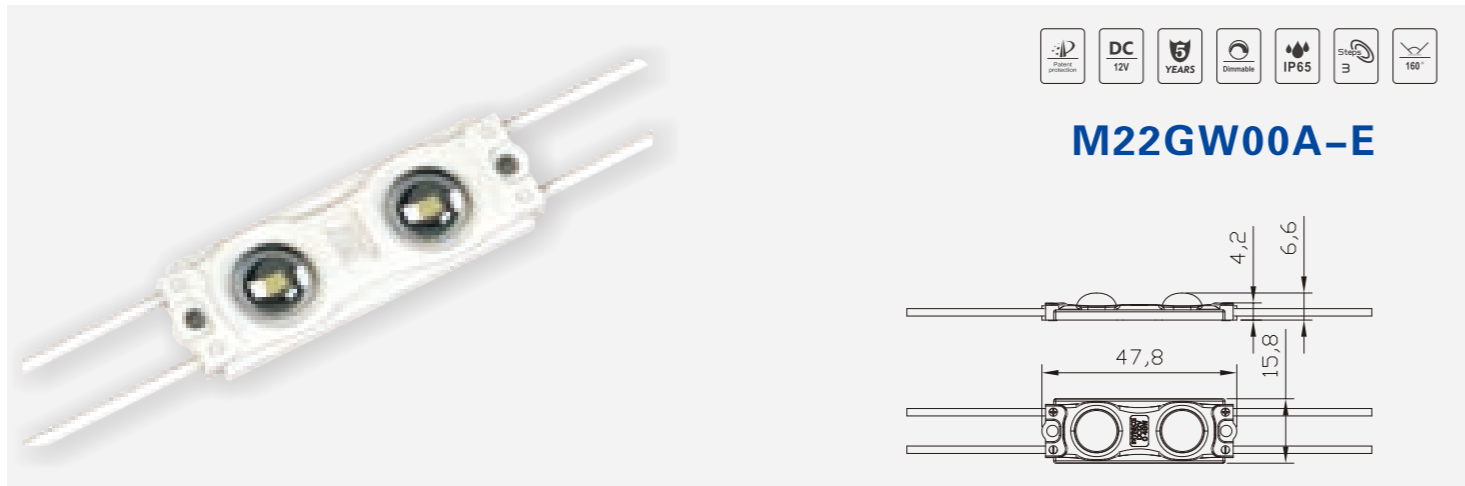
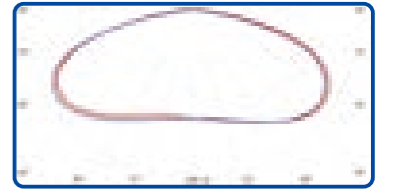
▼产品优势(Product Advantages):

- ◆160°发光角度, 高亮度, 高光效
160°Beam Angle, High Brightness, High Optical Efficiency
- ◆应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆防水等级IP65, 20个模组每串
IP Level: IP65, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 1.08W / pcs
- ◆光通量(Luminous): 105lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ● ● ● ●

▼光数据分布(Optical Data Distribution)



DC 12V 5 YEARS Dimmable IP65 SMD 3 160°
M22GW00A-E

最佳应用: 8-15 cm 厚度的超薄灯箱和发光字
Best for: 8-15 cm thickness of ultra-thin boxes and channel letters

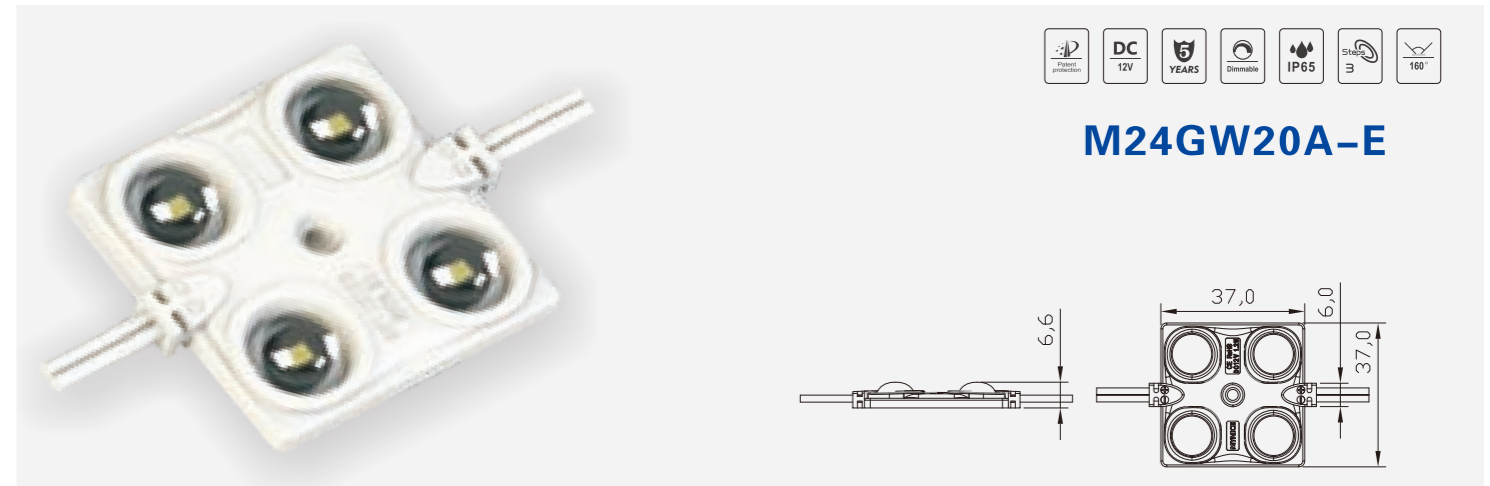
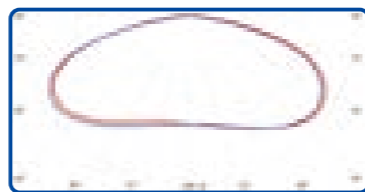
▼产品优势(Product Advantages):

- ◆160°发光角度, 高亮度, 高光效
160°Beam Angle, High Brightness, High Optical Efficiency
- ◆应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆防水等级IP65, 20个模组每串
IP Level: IP65, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 0.72W / pcs
- ◆光通量(Luminous): 50lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ● ● ● ●

▼光数据分布(Optical Data Distribution)



DC 12V 5 YEARS Dimmable IP65 SMD 3 160°
M24GW20A-E

最佳应用: 12-30 cm 厚度的超薄灯箱和发光字
Best for: 12-30 cm thickness of ultra-thin boxes and channel letters

▼产品优势(Product Advantages):

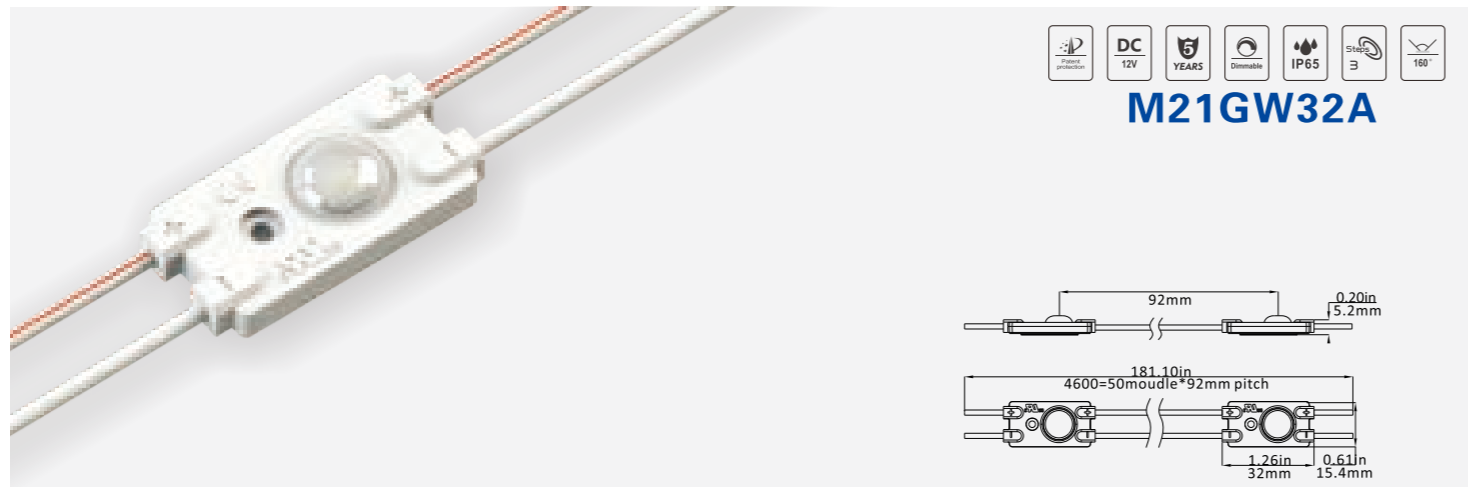
- ◆160°发光角度, 高亮度, 高光效
160°Beam Angle, High Brightness, High Optical Efficiency
- ◆应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆防水等级IP65, 20个模组每串
IP Level: IP65, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 1.44W / pcs
- ◆光通量(Luminous): 150lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ● ● ● ●

▼光数据分布(Optical Data Distribution)





最佳应用: 5-10 cm 厚度的灯箱和发光字
Best for: 5-10 cm light boxes and channel letters

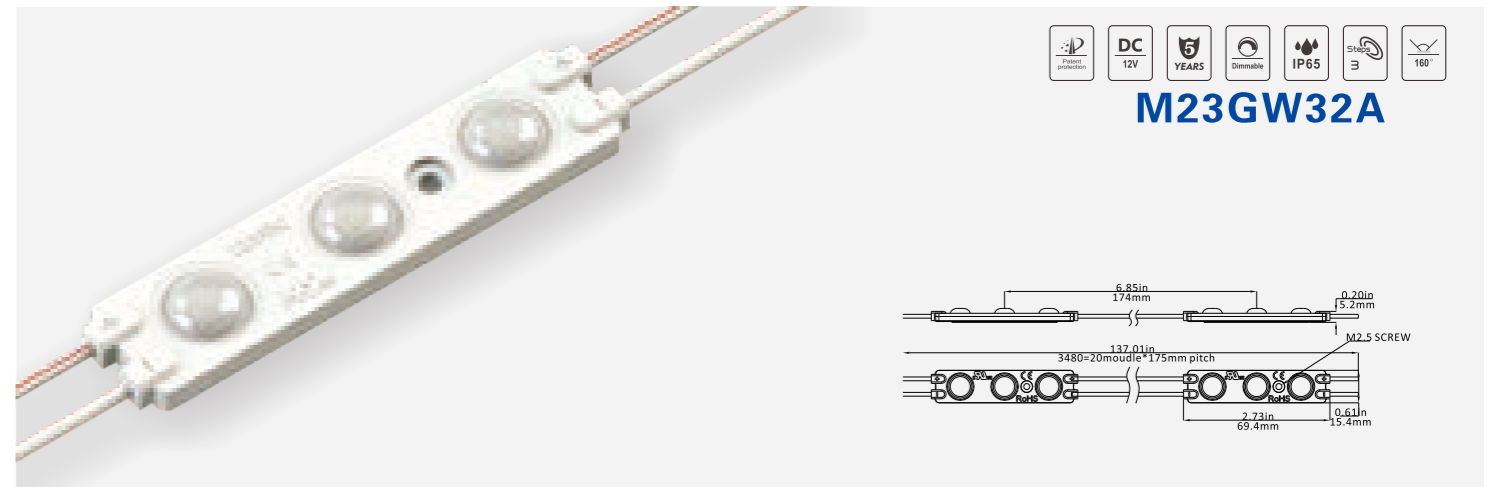
▼产品优势(Product Advantages):

- ◆160°发光角度, 高亮度, 高光效
160°Beam Angle, High Brightness, High Optical Efficiency
- ◆应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆防水等级IP65, 20个模组每串
IP Level: IP65, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 0.36W / pcs
- ◆光通量(Luminous): 36lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○

▼光数据分布(Optical Data Distribution)



最佳应用: 5-10 cm 厚度的灯箱和发光字
Best for: 5-10 cm light boxes and channel letters

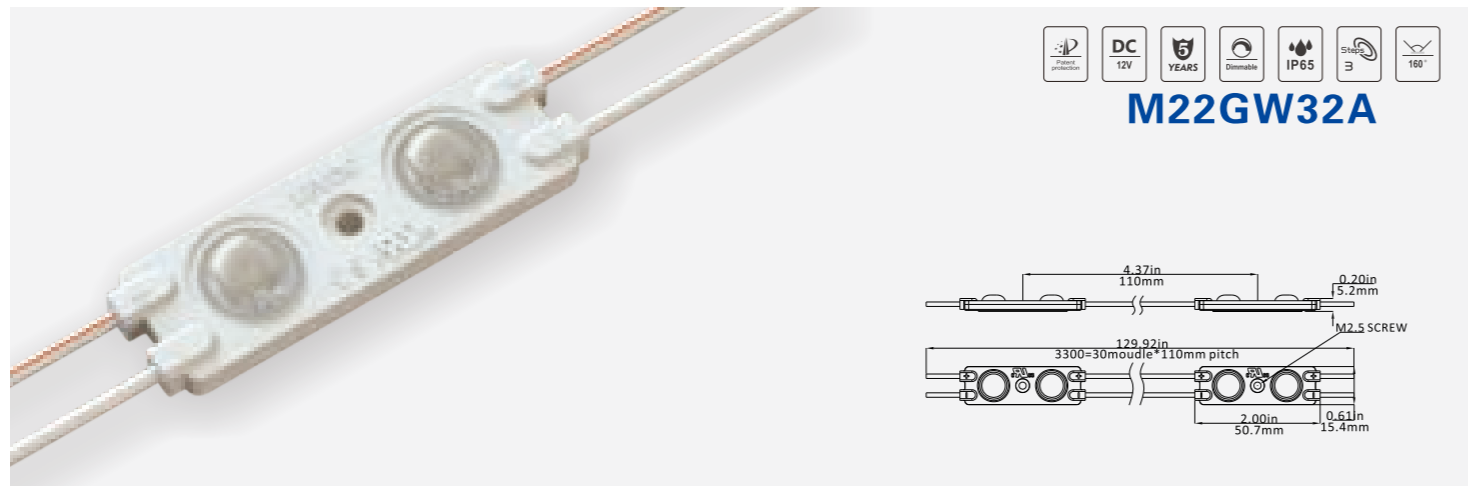
▼产品优势(Product Advantages):

- ◆160°发光角度, 高亮度, 高光效
160°Beam Angle, High Brightness, High Optical Efficiency
- ◆应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆防水等级IP65, 20个模组每串
IP Level: IP65, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 1.08W / pcs
- ◆光通量(Luminous): 105lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○

▼光数据分布(Optical Data Distribution)



最佳应用: 8-15 cm 厚度的灯箱和发光字
Best for: 8-15 cm light boxes and channel letters

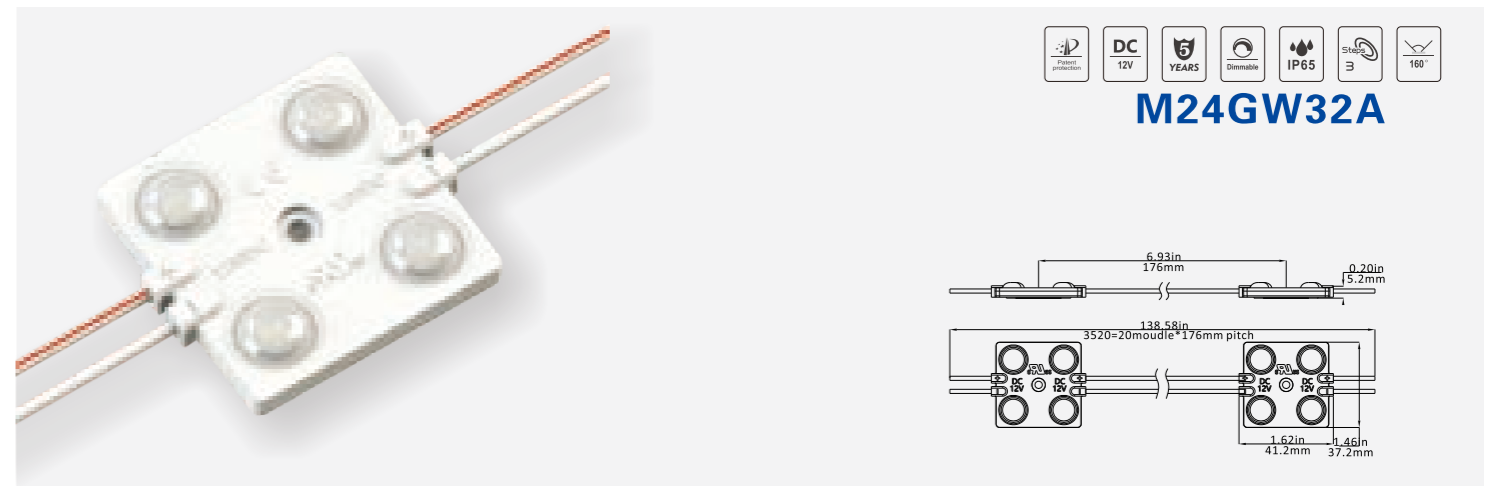
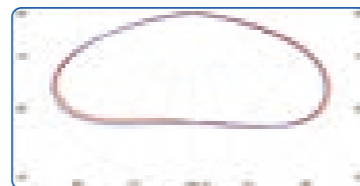
▼产品优势(Product Advantages):

- ◆160°发光角度, 高亮度, 高光效
160°Beam Angle, High Brightness, High Optical Efficiency
- ◆应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆防水等级IP65, 20个模组每串
IP Level: IP65, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 0.72W / pcs
- ◆光通量(Luminous): 72lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ● ● ● ●

▼光数据分布(Optical Data Distribution)



最佳应用: 10-30 cm 厚度的灯箱和发光字
Best for: 10-30 cm light boxes and channel letters

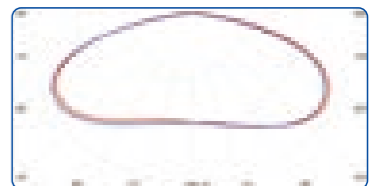
▼产品优势(Product Advantages):

- ◆160°发光角度, 高亮度, 高光效
160°Beam Angle, High Brightness, High Optical Efficiency
- ◆应用在较厚灯箱和发光字
Used in thicker light box and channel letters
- ◆防水等级IP65, 20个模组每串
IP Level: IP65, 20 modules per Chain

▼技术参数(Technical data)

- ◆输入电压(Input Voltage): DC 12V
- ◆功率(Power): 1.44W / pcs
- ◆光通量(Luminous): 144lm / pcs
- ◆寿命(lifetime) > 50000小时(hours)
- ◆颜色(Color): ○ ○ ● ● ● ●

▼光数据分布(Optical Data Distribution)



高压硬灯条系列

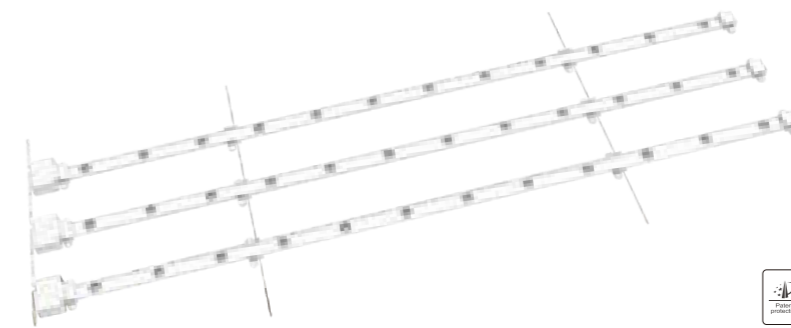
HIGH-VOLTAGE RIGID LIGHT BAR SERIES

高压防水漫反射硬灯条

NEW

High-pressure waterproof diffuse reflection hard light bar

最佳应用: 8-30 cm 厚度的灯箱
Best for: 8-30 cm light boxes



产品特点(Product Features)

- ◆ 175°发光角度, 高效率, 高均匀性透镜
175°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 挤出防水塑胶管绝缘耐压安全可靠
The extruded waterproof plastic tube has a safe and reliable insulation and pressure resistance
- ◆ 卷帘设计, 安装方便快捷
One-piece design, easy installation
- ◆ 良好的散热, 不需要额外的散热器
Good heat dissipation, no need for additional heat sink
- ◆ 防水等级IP65
IP Level: IP65



产品尺寸(Product Size)



产品参数(Application Notes)

产品型号 Product model	电压(V) voltage(V)	功率(W) Power(W)	LED数量 Number of LEDs	通光量(lm/m) Lumens(lm/m)	显指 Explicit(Ra)	每卷数量 Quantity per roll
Z906GW20I	AC100-240V	6.5	6	710	>70	10PCS
Z909GW20I	AC100-240V	10	9	1100	>70	10PCS
Z912GW20I	AC100-240V	13.5	12	1400	>70	10PCS

带光学高压防水硬灯条

NEW

With optical high pressure waterproof rigid light bar

最佳应用: 10-30 cm 厚度的灯箱
Best for: 10-30 cm light boxes

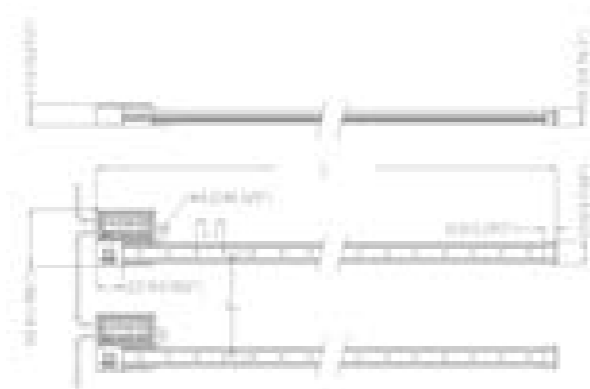


产品特点(Product Features)

- ◆ 160°x120°发光角度, 高效率, 高均匀性透镜
160°x120°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 色温一致性(3个麦克亚当椭圆)
High color consistency (MacAdam 3)
- ◆ 卷帘设计, 安装方便快捷
One-piece design, easy installation
- ◆ 良好的散热, 不需要额外的散热器
Good heat dissipation, no need for additional heat sink
- ◆ 防水等级IP65
IP Level: IP65



产品尺寸(Product Size)



产品参数(Application Notes)

产品型号 Product model	电压(V) voltage(V)	功率(W) Power(W)	LED数量 Number of LEDs	通光量(lm/m) Lumens(lm/m)	显指 Explicit(Ra)	每卷数量 Quantity per roll
Z910GW18I-0.3	AC100-240V	3	10	330	>70	10PCS
Z921GW18I-0.6	AC100-240V	6	21	660	>70	10PCS
Z928GW18I-0.9	AC100-240V	9	28	990	>70	10PCS
Z940GW18I-1.2	AC100-240V	12	40	1320	>70	10PCS

高压防水硬灯条

NEW

High-pressure waterproof rigid light bar

最佳应用: 18-30 cm 厚度的灯箱
Best for: 18-30 cm light boxes

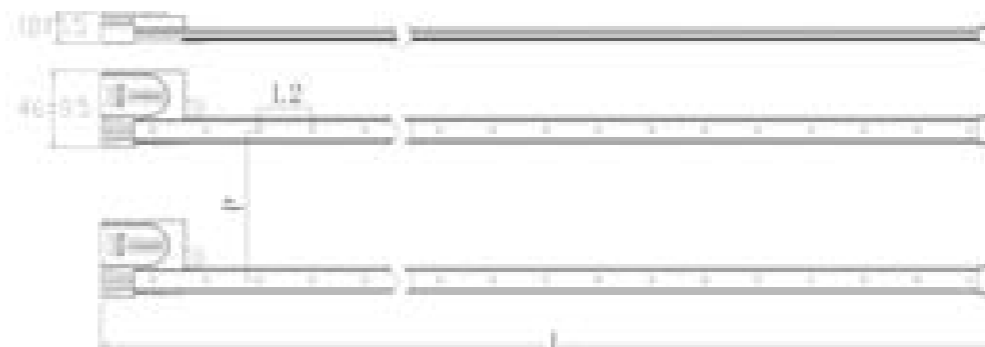


产品特点(Product Features)

- ◆ 120°发光角度, 高效率, 高均匀性透镜
120°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 色温一致性(3个麦克亚当椭圆)
High color consistency (MacAdam 3)
- ◆ 卷帘设计, 安装方便快捷
One-piece design, easy installation
- ◆ 良好的散热, 不需要额外的散热器
Good heat dissipation, no need for additional heat sink
- ◆ 防水等级IP65
IP Level: IP65



产品尺寸(Product Size)



产品参数(Application Notes)

产品型号 Product model	电压(V) voltage(V)	功率(W) Power(W)	LED数量 Number of LEDs	通光量(lm/m) Lumens(lm/m)	显指 Explicit(Ra)	每卷数量 Quantity per roll
Z910GW19I-0.3	AC100-240V	3	10	330	>70	10PCS
Z921GW19I-0.6	AC100-240V	6	21	660	>70	10PCS
Z928GW19I-0.9	AC100-240V	9	28	990	>70	10PCS
Z940GW19I-1.2	AC100-240V	12	40	1320	>70	10PCS

低压硬灯条系列

LOW-VOLTAGE RIGID LIGHT BAR SERIES

L1XXHX32E

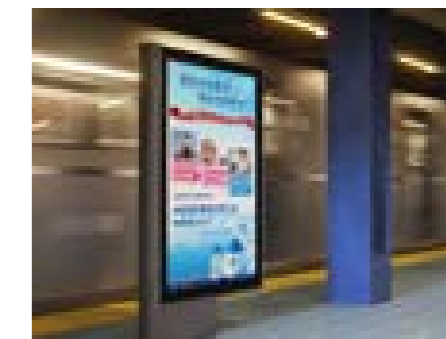


最佳应用: 15-20 cm 厚度双面灯箱
Best for: 15-20 cm thickness of Double-sided light boxes

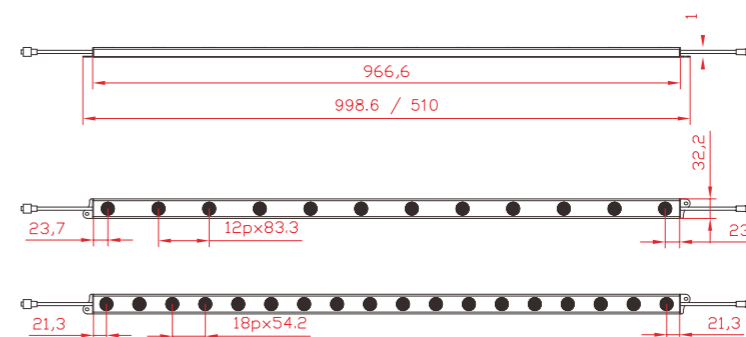


产品特点(Product Features)

- ◆ 色温一致性相当于4个麦克亚当椭圆
High color consistency (MacAdam 4)
- ◆ 恒流电路设计, 使用英飞凌IC
Use Al Heat-sink to ensure heat dissipation
- ◆ 晶元芯片LED, 寿命大于50000小时
Epistar LED chip, Lifetime > 50000 Hours
- ◆ 硅胶灌封, 防水等级可达IP65
Silicone potting, IP Level: IP65



产品尺寸(Product Size)



产品参数(Application Notes)

产品型号 Product model	电压(V) Voltage(V)	功率(W) Power(W)	LEDs/M LEDs/M	通光量(lm/m) Lumens(lm/m)	防水等级 IP level	发光角度 Beam angle
L112HX32E	24V	24	12	1860	67	15x45°
L118HX32E	24V	36	18	2800	67	15x45°
L106HX32E	24V	12	06	1080	67	15x45°
L109HX32E	24V	18	09	1630	67	15x45°

L205HW27E



最佳应用: 12-40 mm 厚度双面灯箱
10-40 mm 厚度单面灯箱

Best for: 12-40mm depth double-sided light box
10-40mm depth single-sided light box



产品特点(Product Features)

- ◆ 采用高输出OSRAM LED, 颜色一致性好, 无斑点。
Sourced by high output OSRAM LED, good color conformity and no spot
- ◆ 色温一致性相当于3个麦克亚当椭圆
High color consistency (MacAdam 3)
- ◆ 具有可靠性能的高性价比的解决方案
Cost-effective solution with reliable performance
- ◆ 多种快速简便安装方式可选: 螺栓连接或3M双面胶
Several options for quick and simple mounting: bolting or 3M double-sided adhesive



产品尺寸(Product Size)



产品参数(Application Notes)

产品型号 Product model	电压(V) Voltage(V)	功率(W) Power(W)	LED数量 Number of LEDs	通光量(lm/m) Lumens(lm/m)	LED类型 LED type	色温(K) Color(k)
L205HW27E	DC24V	15	5	792	OSRAM 3535	3000-7000

L1XXHW30E

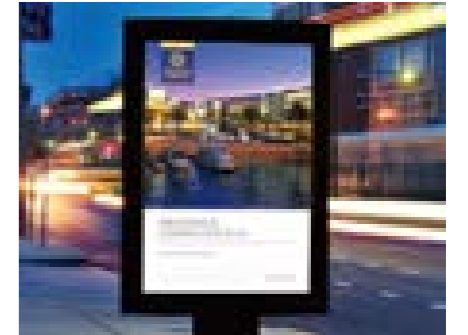


最佳应用: 5-30 cm 厚度单面灯箱
Best for: 5-30 cm thickness of single-side light boxes

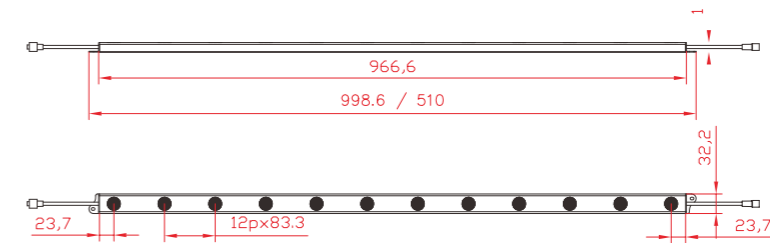


产品特点(Product Features)

- ◆ 色温一致性相当于3个麦克亚当椭圆
High color consistency (MacAdam 3)
- ◆ 恒流电路设计, 使用英飞凌IC
Use Al Heat-sink to ensure heat dissipation
- ◆ 晶元芯片LED, 寿命大于50000小时
Epistar LED chip, Lifetime > 50000 Hours
- ◆ 硅胶灌封, 防水等级可达IP66
Silicone potting, IP Level: IP66



产品尺寸(Product Size)



产品参数(Application Notes)

产品型号 Product model	电压(V) voltage(V)	功率(W) Power(W)	LED数量 Number of LEDs	通光量 Lumens(lm/m)	发光角度 Beam angle
L106HX30E	DC24V	12	6	1080	15°45°
L112HX30E	DC24V	24	12	2160	15°45°

L312GX23B



最佳应用: 5-30 cm 厚度单面灯箱
Best for: 5-30 cm thickness of single-side light boxes

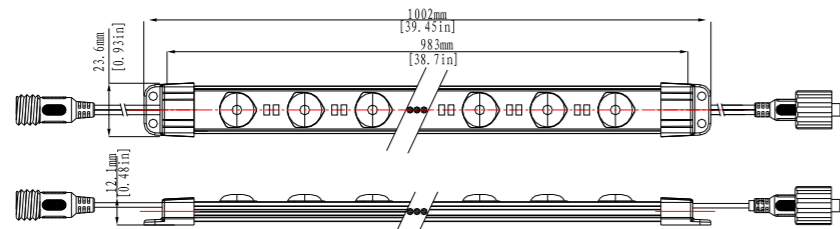


产品特点(Product Features)

- ◆ 168°发光角度, 高效率, 高均匀性透镜
168°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 色温一致性相当于3个麦克亚当椭圆
High color consistency (MacAdam 3)
- ◆ 使用铝散热器, 保证散热
Use Al Heat-sink to ensure heat dissipation
- ◆ 晶元芯片LED, 寿命大于50000小时
Epistar LED chip, Lifetime > 50000 Hours
- ◆ 硅胶灌封, 防水等级可达IP67
Silicone potting, IP Level: IP67



产品尺寸(Product Size)



产品参数(Application Notes)

产品型号 Product model	电压(V) Voltage(V)	功率(W) Power(W)	LED数量 Number of LEDs	通光量(lm/m) Lumens(lm/m)	LED类型 LED type	色温(K) Color(k)
L312GW23B-0.5	24V	7.2	6	792	2835	2700-12000
L312HW23B-0.5	24V	7.2	9	792	OSRAM 3030	2700-7000
L312GW23B-1	24V	14.4	12	1584	2835	2700-12000
L312HW23B-1	24V	14.4	12	1584	OSRAM 3030	2700-7000

L012GW18A/B

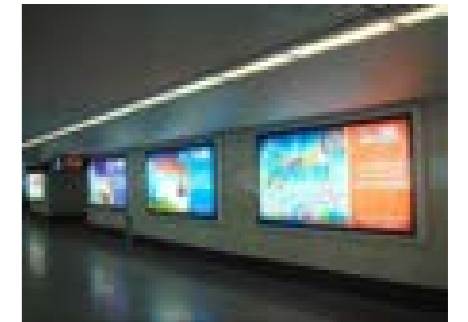


最佳应用: 5-30 cm 厚度单面灯箱
Best for: 5-30 cm thickness of single-side light boxes

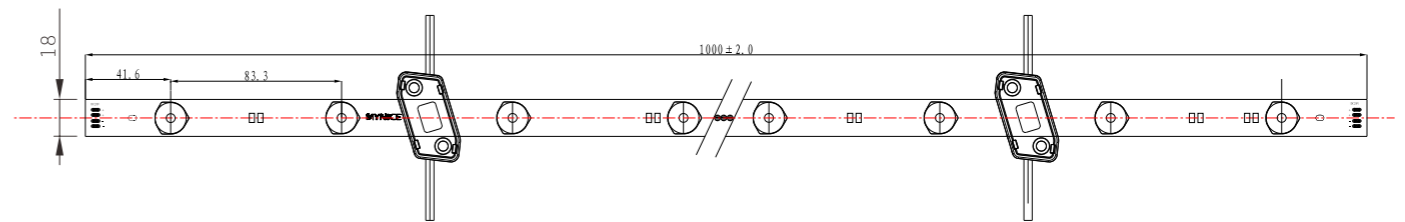


产品特点(Product Features)

- ◆ 170°发光角度, 高效率, 高均匀性透镜
170°Beam Angle, High Efficiency, High Uniformity Lens
- ◆ 色温一致性(3个麦克亚当椭圆)
High color consistency (MacAdam 3)
- ◆ 卷帘设计, 安装方便快捷
One-piece design, easy installation
- ◆ 晶元芯片LED, 寿命大于20000小时
Epistar LED chip, Lifetime > 20000 Hours



产品尺寸(Product Size)

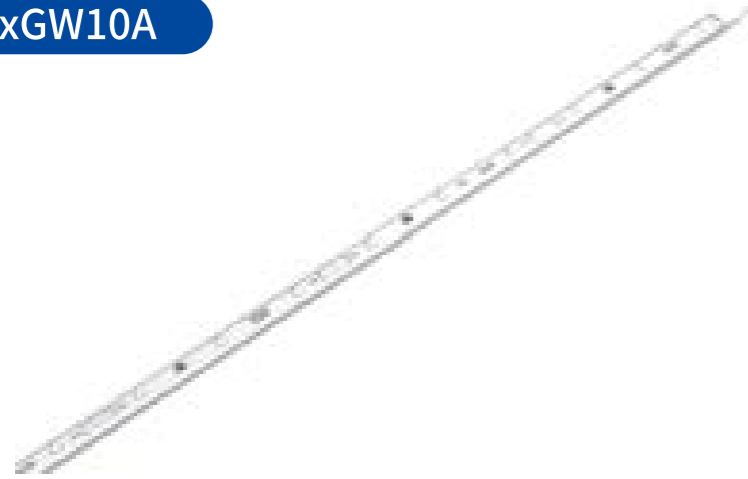


产品参数(Application Notes)

产品型号 Product model	电压(V) voltage(V)	功率(W) Power(W)	LED数量 Number of LEDs	通光量 Lumens(lm/m)	发光角度 Beam angle
L012GW18A/B-0.5	12/24V	7.2	6	792	170°
L012GW18A/B-1.0	12/24V	14.4	12	1584	170°

L0xxGW10A

L1xxGW10A



最佳应用: 超薄灯箱, 导光板, 橱柜及装饰照明
for: Ultra-thin light box, guide plate, cabinets and Decorative lighting

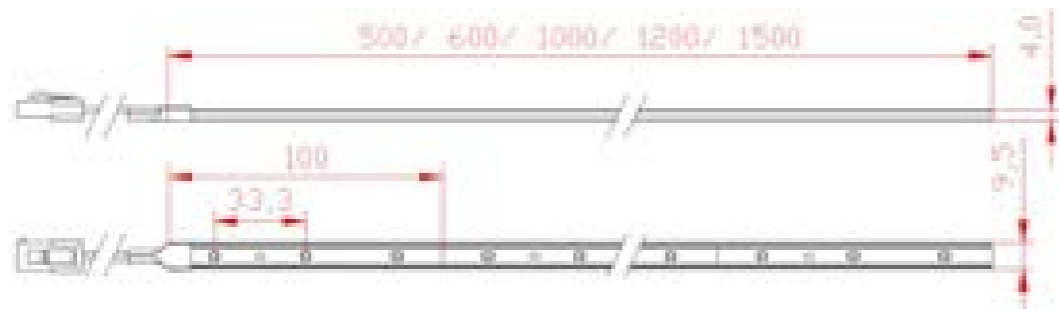


产品特点(Product Features)

- ◆ 使用灵活, 可剪裁为不同长度
Flexible use, can be cut to different lengths
- ◆ 色温一致性相当于3个麦克亚当椭圆
High color consistency (MacAdam 3)
- ◆ 使用铝散热器, 保证散热
Use Al Heat-sink to ensure heat dissipation
- ◆ 晶元芯片LED, 寿命大于50000小时
Epistar LED chip, Lifetime > 50000 Hours
- ◆ 硅胶灌封, 防水等级可达IP65
Silicone potting, IP Level: IP65



产品尺寸(Product Size)



产品参数(Application Notes)

产品型号 Product model	电压(V) Voltage(V)	功率(W) Power(W)	LED数量 Number of LEDs	通光量(lm/m) Lumens(lm/m)	灯具长度(mm) Light length(mm)	色温(K) Color(k)
L115GW10A	12V	3.6	15	330	500	2700-17000
L118GW10A	12V	4.3	18	400	600	2700-17000
L130GW10A	12V	7.2	30	660	1000	2700-17000
L136GW10A	12V	8.65	36	800	1200	2700-17000
L145GW10A	12V	10.8	36	990	1500	2700-17000

◆ L0xxGW10A: 为不防水产品型号。
L0xxGW10A: Non-waterproof product model.

Z0xxGW04A

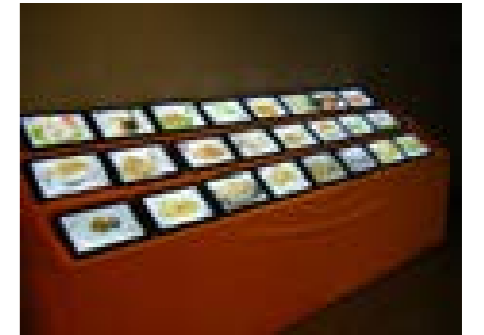


最佳应用: 超薄灯箱, 导光板, 橱柜及装饰照明
Best for: Ultra-thin light box, guide plate, cabinets and Decorative lighting



产品特点(Product Features)

- ◆ 选用高光LED灯, 低光衰, 高CRI, 完美色彩均匀
Selection of High light LED light, low light decay, high CRI, perfect color uniform
- ◆ 色温一致性(3个麦克亚当椭圆)
High color consistency (MacAdam 3)
- ◆ 功耗低, 寿命长, 免维护。
Low power consumption, long life, maintenance free
- ◆ 晶元芯片LED, 寿命大于50000小时
Epistar LED chip, Lifetime > 50000 Hours



产品尺寸(Product Size)



产品参数(Application Notes)

产品型号 Product model	电压(V) voltage(V)	功率(W) Power(W)	LED数量 Number of LEDs	通光量 Lumens(lm/m)	灯具长度(mm) Light length(mm)	色温(K) Color(k)
Z060GW04A	12V	9.6	60	960	1000	2700-17000
Z072GW04A	12V	11.5	72	1150	1000	2700-17000
Z096GW04A	12V	15.3	96	1530	1000	2700-17000
Z0C0GW04A	12V	16.8	120	1680	1000	2700-17000

电源系列

POWER SUPPLY SERIES

塑封电源(5年质保)

Plastic seal power supply(5 year warranty)



型号(Model)	MNS-HWV-012/024-30
输入电压(Input voltage)	AC200-240 50/60Hz
IP等级(IP code)	IP67
功率(Efficiency)	≥86% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	169x33.5x23.5mm



型号(Model)	MNS-HXV-012/024-40
输入电压(Input voltage)	AC200-240 50/60Hz
IP等级(IP code)	IP67
功率(Efficiency)	≥86% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	215x32x15mm



型号(Model)	MNS-HWV-012/024-60
输入电压(Input voltage)	AC200-240 50/60Hz
IP等级(IP code)	IP67
功率(Efficiency)	≥86% at 277 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	162x42x34mm

防水电源(5年质保)

Waterproof power supply(5 year warranty)



型号(Model)	MNS-HNV-012/024-100
输入电压(Input voltage)	AC200-240 50/60Hz
IP等级(IP code)	IP67
功率(Efficiency)	≥88% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	226x60x37mm



型号(Model)	MNS-HNV-012/024-150
输入电压(Input voltage)	AC200-240 50/60Hz
IP等级(IP code)	IP67
功率(Efficiency)	≥88% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	261x60x37mm



型号(Model)	MNS-HNV-012/024-200
输入电压(Input voltage)	AC200-240 50/60Hz
IP等级(IP code)	IP67
功率(Efficiency)	≥88% at 277 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	256x72x43mm



型号(Model)	MNS-HNV-012/024-300
输入电压(Input voltage)	AC200-240 50/60Hz
IP等级(IP code)	IP67
功率(Efficiency)	≥88% at 277 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	256x72x43mm

防雨电源(3年质保)

Rainproof power supply(3 year warranty)



型号(Model)	MNS-EXV-012/024-200
输入电压(Input voltage)	AC200-240 50/60Hz
功率因数(Power factor)	PF ≥0.9/220VAC (at full load)
功率(Efficiency)	≥86% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	185.3x93.4x50mm



型号(Model)	MNS-EXV-012/024-300
输入电压(Input voltage)	AC200-240 50/60Hz
功率因数(Power factor)	PF ≥0.88/220VAC (at full load)
功率(Efficiency)	≥86% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	185.3x93.4x50mm



型号(Model)	MNS-EXV-012/024-400
输入电压(Input voltage)	AC200-240 50/60Hz
功率因数(Power factor)	PF ≥0.9/220VAC (at full load)
功率(Efficiency)	≥86% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	193x109.5x51.5mm

防雨电源(5年质保)

Rainproof power supply(5 year warranty)



型号(Model)	MNS-HXV-012/024-400
输入电压(Input voltage)	AC200-240 50/60Hz
功率因数(Power factor)	PF ≥0.9/220VAC (at full load)
功率(Efficiency)	≥90% at 277 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	216.5x117.5x51mm

LP series (2 years warranty)

明纬电源/Mean Well Power Supply



型号(Model)	LPV-35-12/24
输入电压(Input voltage)	90~264VAC
IP等级(IP code)	IP67
功率(Efficiency)	≥85% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-30°C ~ +65°C (at full load)
尺寸(Dimension)	148x40x30mm



型号(Model)	LPV-60-12/24
输入电压(Input voltage)	90~264VAC
IP等级(IP code)	IP67
功率(Efficiency)	≥86% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-30°C ~ +70°C (at full load)
尺寸(Dimension)	162.5x42.5x32mm



型号(Model)	LPV-100-12/24
输入电压(Input voltage)	90~264VAC
IP等级(IP code)	IP67
功率(Efficiency)	≥88% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-25°C ~ +70°C (at full load)
尺寸(Dimension)	190x52x37mm



型号(Model)	LPV-150-12/24V LPVL-150-12/24V
输入电压(Input voltage)	LPV:180~305VAC; LPVL:90~132VAC
IP等级(IP code)	IP67
功率(Efficiency)	≥89% at 277 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-25°C ~ +65°C (at full load)
尺寸(Dimension)	191x63x37.5mm

NPF series (5 years warranty)

明纬电源/Mean Well Power Supply



型号(Model)	NPF-40(D)-12/24V NPF-60(D)-12/24V
输入电压(Input voltage)	90~305VAC
IP等级(IP code)	IP67
功率(Efficiency)	≥89% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +85°C (at full load)
尺寸(Dimension)	150x53x35mm



型号(Model)	NPF-90(D)-12/24
输入电压(Input voltage)	90~305VAC
IP等级(IP code)	IP67
功率(Efficiency)	≥90% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +85°C (at full load)
尺寸(Dimension)	171x63x37.5mm



型号(Model)	NPF-120(D)-12/24
输入电压(Input voltage)	90~305VAC
IP等级(IP code)	IP67
功率(Efficiency)	≥89% at 277 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +80°C (at full load)
尺寸(Dimension)	162.5x43x32mm

LPF series (5 years warranty)

明纬电源/Mean Well Power Supply



型号(Model)	LPF-40(D)-12/24V LPF-60(D)-12/24V
输入电压(Input voltage)	100~305VAC
IP等级(IP code)	IP67
功率(Efficiency)	≥92% at 277 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +90°C (at full load)
尺寸(Dimension)	140x63x32mm

LPF series (5 years warranty)

明纬电源/Mean Well Power Supply



型号(Model)	LPF-90(D)
输入电压(Input voltage)	90~305VAC
IP等级(IP code)	IP67
功率(Efficiency)	≥90% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +70°C (at full load)
尺寸(Dimension)	161x61x36mm

XLG series (5 years warranty)

明纬电源/Mean Well Power Supply



型号(Model)	XLG-100-12/24V
输入电压(Input voltage)	100~305VAC
IP等级(IP code)	IP67
功率(Efficiency)	≥92% at 277 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +90°C (at full load)
尺寸(Dimension)	140x63x32mm



型号(Model)	XLG-150-12/24V
输入电压(Input voltage)	100~305VAC
IP等级(IP code)	IP67
功率(Efficiency)	≥93% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +90°C (at full load)
尺寸(Dimension)	180x63x35.5mm



型号(Model)	XLG-200
输入电压(Input voltage)	100~305VAC;142~431VDC
IP等级(IP code)	IP67
功率(Efficiency)	≥94% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	199x63x35.5mm

ELG series (5 years warranty)

明纬电源/Mean Well Power Supply



型号(Model)	ELG-100-24V
输入电压(Input voltage)	100~305VAC;142~431VDC
IP等级(IP code)	IP67
功率(Efficiency)	≥88% at 277 VAC (at full load)
输出电压(Output voltage)	24 VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +85°C (at full load)
尺寸(Dimension)	199x63x35.5mm



型号(Model)	ELG-150-12/24V
输入电压(Input voltage)	100~305VAC;142~431VDC
IP等级(IP code)	IP67
功率(Efficiency)	≥89% at 277 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +90°C (at full load)
尺寸(Dimension)	219x63x35.5mm



型号(Model)	ELG-200-12/24V
输入电压(Input voltage)	100~305VAC;142~431VDC
IP等级(IP code)	IP67
功率(Efficiency)	≥92% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +85°C (at full load)
尺寸(Dimension)	244x71x37.5mm



型号(Model)	ELG-300-12/24V
输入电压(Input voltage)	100~305VAC;142~431VDC
IP等级(IP code)	IP67
功率(Efficiency)	≥94% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +85°C (at full load)
尺寸(Dimension)	246x77x39.5mm

HLG series (7 years warranty)

明纬电源/Mean Well Power Supply



型号(Model)	HLG-150H-12/24V
输入电压(Input voltage)	90~305VAC;127~431VDC
IP等级(IP code)	IP67
功率(Efficiency)	≥93% at 277 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +90°C (at full load)
尺寸(Dimension)	228x68x38.8mm



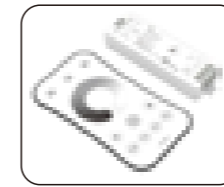
型号(Model)	HLG-240H-12/24V
输入电压(Input voltage)	90~305VAC;127~431VDC
IP等级(IP code)	IP67
功率(Efficiency)	≥92.5% at 277 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +90°C (at full load)
尺寸(Dimension)	244.2x68x38.8mm



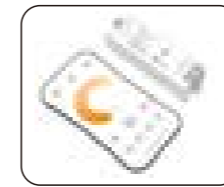
型号(Model)	HLG-320H-12/24V
输入电压(Input voltage)	90~305VAC;127~431VDC
IP等级(IP code)	IP67
功率(Efficiency)	≥94% at 220 VAC (at full load)
输出电压(Output voltage)	12 /24VDC (+/- 5%)
工作温度(Working temperature)	-40°C ~ +90°C (at full load)
尺寸(Dimension)	252x90x43.8mm



型号(Model)	HLG-480H-24V
输入电压(Input voltage)	90~305VAC;127~431VDC
IP等级(IP code)	IP67
功率(Efficiency)	≥94% at 220 VAC (at full load)
输出电压(Output voltage)	24 VDC (+/- 5%)
工作温度(Working temperature)	-40°C / +50°C (at full load)
尺寸(Dimension)	262x125x43.8mm



Model NO.	92100-00120		
Input Voltage	5-36VDC	Dimming range	0-100%
Output Type	PWM Constant Voltage	Remote Control Distance	30m
Output Current	1CH, 8A/CH	Operating Temperature	-30°C~55°C
Output Power	DC12V: Max96W DC24V: Max192W	Product Dimension	L97*W33*H18mm
Gray Level	4096/CH	Weight(G.W)	72g



Model NO.	92100-00130		
Input Voltage	12-24VDC	Dimming range	0-100%
Output Type	PWM Constant Voltage	Remote Control Distance	30m
Output Current	2CH, 5A/CH	Operating Temperature	-30°C~55°C
Output Power	DC12V: Max120W DC24V: Max240W	Product Dimension	L97*W33*H18mm
Gray Level	4096/CH	Weight(G.W)	72g



Model NO.	92100-00170 and 92100-00180		
Input Voltage	12-24VDC	Dimming range	0-100%
Output Type	PWM Constant Voltage	Remote Control Distance	30m
Output Current	1CH, 5A/CH	Operating Temperature	-30°C~55°C
Output Power	DC12V: Max60W DC24V: Max120W	Product Dimension	L114*W38*H20mm
Gray Level	4096/CH	Weight(G.W)	38g



Model NO.	92100-00140		
Input Voltage	12-24VDC	Dimming range	0-100%
Output Type	PMW Constant Voltage	Remote Control Distance	30m
Output Current	3CH, 4A/CH	Operating Temperature	-30°C~55°C
Output Power	DC12V: Max144W DC24V: Max288W	Product Dimension	L97*W33*H18mm
Gray Level	4096/CH	Weight(G.W)	72g



Model NO.	92100-00150		
Input Voltage	12-24VDC	Dimming range	0-100%
Output Type	PWM Constant current	Remote Control Distance	30m
Output Current	4CH, 3A/CH	Operating Temperature	-30°C~55°C
Output Power	DC12V: Max144W DC24V: Max288W	Product Dimension	L114*W38*H20mm
Gray Level	4096/CH	Weight(G.W)	87g

















Model NO.	92100-00160		
Input Voltage	12-24VDC	Dimming range	0-100%
Output Type	PWM Constant Voltage	Remote Control Distance	30m
Output Current	5CH, 3A/CH	Operating Temperature	-30°C~55°C
Output Power	DC12V: Max180W DC24V: Max360W	Product Dimension	L114*W38*H20mm
Gray Level	4096/CH	Weight(G.W)	87g








Model NO.	92100-00190		
Input Voltage	5-24VDC	Control the pixel	1024
Output Type	SPI Constant Voltage	Change mode	30 Kids
Output Current	5CH, 3A/CH	Product Dimension	L97*W33*H18mm
Output Power	DC5V: Max180W DC12V: Max180W DC24V: Max360W		
Weight(G.W)	72g		



Cable

NAME	Image
SM-male wire	
SM-female wire	
DC-male wire	
DC-female wire	
PVC-female wire	
PVC-male wire	
Lucid male wire	
Lucid female wire	
Lucid wire	
PVC-female wire	
PVC-male wire	
Lucid female wire	
Lucid male wire	
Lucid wire	

Cable Connector

NAME	Image
Part No : 413-00240-00 Single Pin, "T"Shape Wire Connector	
Part No : 413-00241-00 Double Pin, "T"Shape Wire Connector	
Part No : 413-00242-00 Double Pin Dual plug type unplug connector	
Part No : 413-00242-00 Double Pin Dual plug type unplug connector	
Part No : 413-00243-00 Brancher 1 drag 2 with XC-JXD-D2	

Cable Connector

NAME	Image
Part No : 413-00237-00 Single Pin, "-"Shape Wire Connector	
Part No : 413-00238-00 Double Pin, "-"Shape Wire Connector	
Part No : 413-00239-00 Single Pin, "T"Shape Wire Connector	