Intelligent Tunable White LED Driver (Constant Current)

NFC

- Ultra-small, thin and light screwless end cap.
- The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTRO.
- Eight DT6/DT8 device types are integrated in one device, configurable via NFC Lighting APP. RGBCW, W, 2×CT (sync), and XY are single - address; 2×CT (async), XY+CT, RGB+CT, and XY+W are double - address.
- Change the output current, fade time and other parameters on the NFC programmer or via the App, and sync the parameters to the driver.
- The current gear step value can be set as low as 1mA, offering higher compatibility and finer precision.
- Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWM Super depth dimming technology, dimming depth can reach 0.1%
- 0-100% full dimming without video flash, high frequency exemption assessment level
- Comply with the EU's ErP Directive, networked standby<0.5W.
- When there is no load, the output will be 0V to prevent damage to LEDs due to poor contact.
- Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Suitable for Class Ⅰ / Ⅱ /Ⅲ indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor)

DALI 2

Color light control

T-PWM
Dimming Technology

Flicker Free
IEEE 1789

Dimmable:
1000 : 1

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

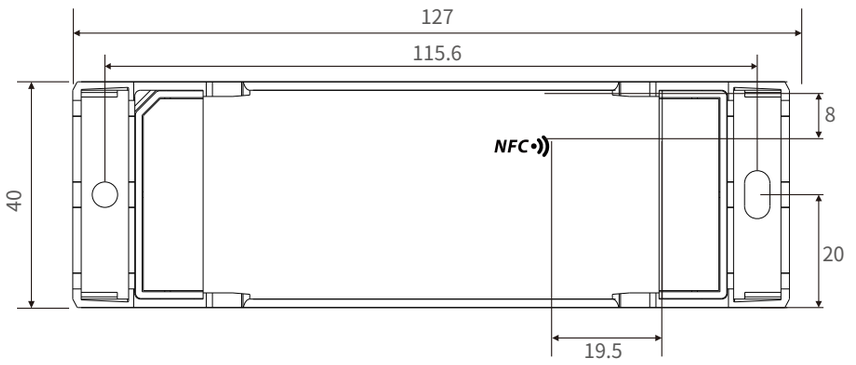
Multi current setting | Constant power setting | Overheat Protection | Over voltage protection | Over Load protection | Short circuit protection

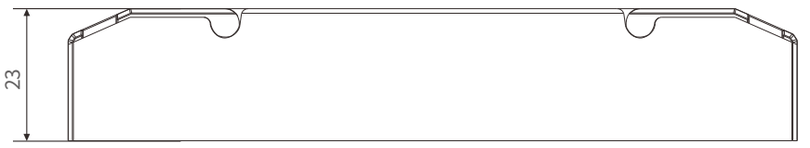
Technical Specs

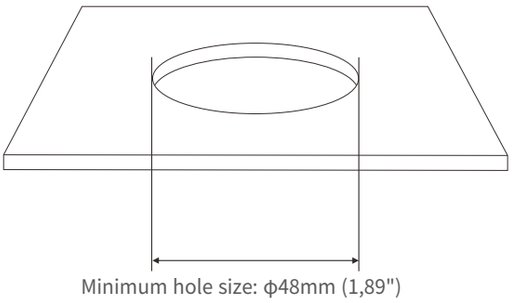
Model		SE-20-50-100-W5D		
Features	Output Type	Constant current		
	Dimming Interface	DALI-2		
	Output Feature	Isolation		
	Protection Grade	IP20		
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)		
OUTPUT	Output Voltage	9-42Vdc		
	Maximum output voltage	≤50Vdc		
	Output Current Range	50-100mA （Set this parameter using the NFC APP）		
	Output Power Range	0.45W-21W		
	Dimming Range	0.1~100%, down to 0.1%		
	LF Current Ripple	<5%(Maximum current for non dimming state)		
	Current Accuracy	±5%		
	PWM Frequency	≤3600Hz		
INPUT	DC Voltage Range	100-240Vdc		
	AC Voltage Range	100-240Vac		
	DC current range	0.09-0.25A		
	Emergency output coefficient	EoF_i=98%		
	Input Voltage	115Vac/230Vac		
	Frequency	0/50/60Hz		
	Input Current	≤0.25A/115Vac, ≤0.13A/230Vac		
	Power Factor	PF>0.95/115Vac (at full load), PF>0.9C/230Vac (at full load)		
	THD	THD≤10%/230Vac(at full load)		
	Efficiency (Typ.)	85%(at full load)		
	Inrush Current	Cold start 15A(Test twidth=102us tested under 50% Ipeak)/230Vac		
	Anti Surge	L-N: 2KV		
	Leakage Current	Max. 0.24mA		
ENVIRONMENT	Working Temperature	ta: -20 ~ 50°C tc: 80°C		
	Working Humidity	20 ~ 95%RH, non-condensing		
	Storage Temperature/Humidity	-40 ~ 80°C/10~95%RH		
	Temperature Coefficient	±0.03%/°C(-20-50°C)		
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively		
PROTECTION	Overload Protection	Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced.		
	Overheat Protection	The temperature returns to normal and the abnormality is eliminated.		
	Overvoltage Protection	Automatically protect the device when voltage exceeds the no-load voltage.		
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically.		
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac≦5mA/60S		
	Insulation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH		
	Safety Standards	CCC	China	GB19510.1, GB19510.14
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493
		CB	CB Member States	IEC61347-1, IEC61347-2-13
		CE	European Union	EN61347-1, EN61347-2-13, EN62384
		KC	Korea	KC61347-1, KC61347-2-13
		EAC	Russia	IEC61347-1, IEC61347-2-13
		RCM	Australia	AS 61347-1, AS 61347-2-13
		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384
		UKCA	Britain	BS EN 61347-1, BS EN 61347-2-13, BS EN 62493
		BIS	India	IS 15885 (PART 2/SEC 13)
		CUL	Canada	CSA C22.2 NO.250.13
		UL	America	UL 8750
	EMC Emission	CCC	China	GB/T17743, GB17625.1
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547
		KC	Korea	KSC 9815, KSC 9547
		EAC	Russia	IEC62493, IEC61547, EH55015
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61547
		UKCA	Britain	BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547
		CUL	Canada	ICES-005
		UL	America	FCC PART 15B
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547		
ErP	Power Consumption	Networked standby		<0.5W (After shutdown by command)
		No-load power consumption		<0.5W (When the lamp is not connected)
	Flicker/Stroboscopic Effect	IEEE 1789		Meet IEEE 1789 standard/High frequency exemption level
		CIE SVM		Pst LM≤1.0, SVM≤0.4
	DF	Phase factor		DF≥0.9
OTHERS	Weight(N.W.)	100g±10g		
	Dimensions	127×40×23mm(L×W×H)		

Product Size

Unit: mm



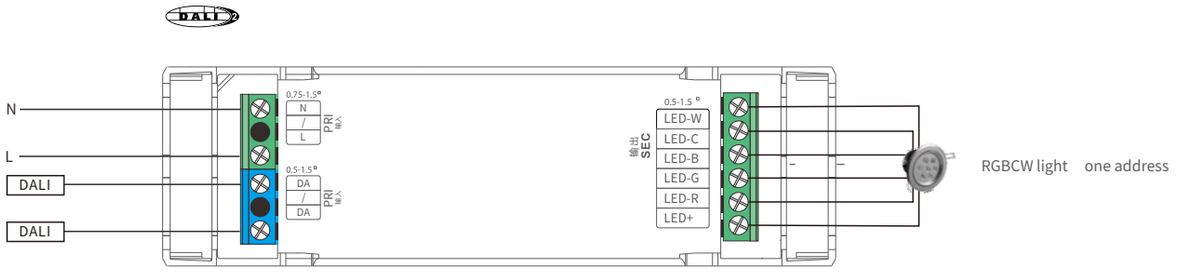




Minimum hole size: ϕ48mm (1,89")

Wiring Diagram

Single-address RGBCW wiring method

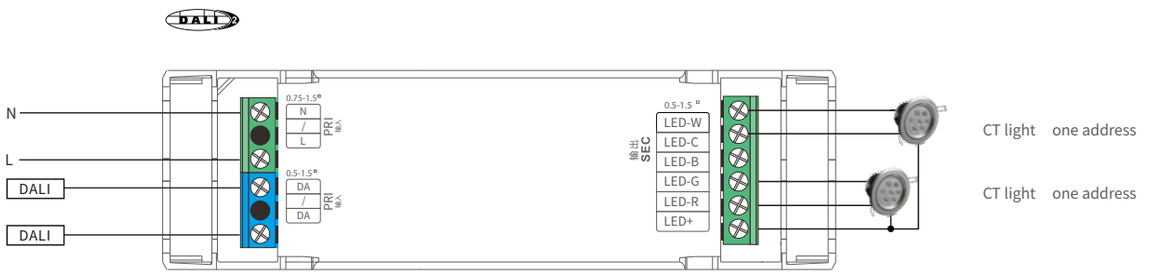


Wire diameter:0.75-1.5㎡(20-16AWG)
Strip length:5-6mm

Wire diameter:0.5-1.5㎡(22-16AWG)
Strip length:5-6mm

* It is set through the NFC Lighting APP. Connect one RGBCW light, which occupies one address.

Single - address 2 - CT wiring method

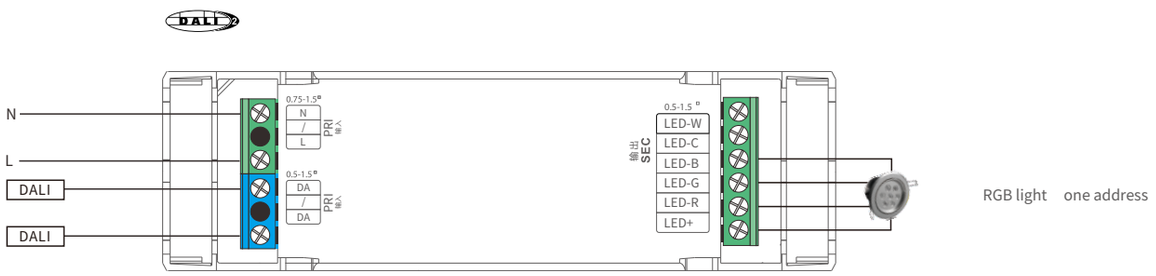


Wire diameter:0.75-1.5㎡(20-16AWG)
Strip length:5-6mm

Wire diameter:0.5-1.5㎡(22-16AWG)
Strip length:5-6mm

* Set via the NFC Lighting APP, connect 2 color temperature lights for synchronous control, occupying 1 address.

Single-address XY wiring method

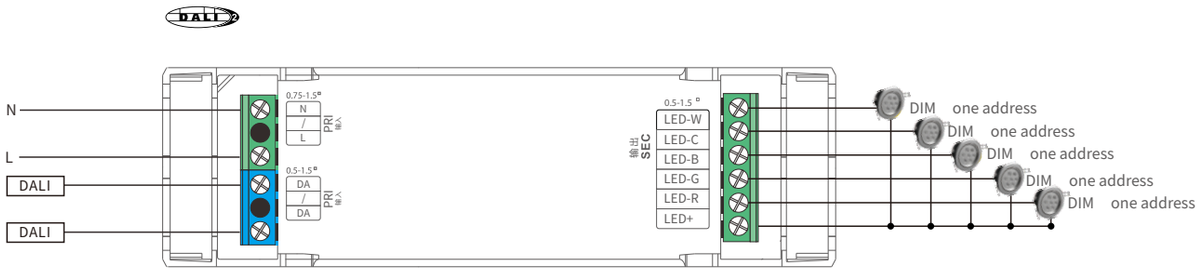


Wire diameter:0.75-1.5㎡(20-16AWG)
Strip length:5-6mm

Wire diameter:0.5-1.5㎡(22-16AWG)
Strip length:5-6mm

* Set through the NFC Lighting APP, connect one RGB light, which occupies one address.

Single-address W wiring method

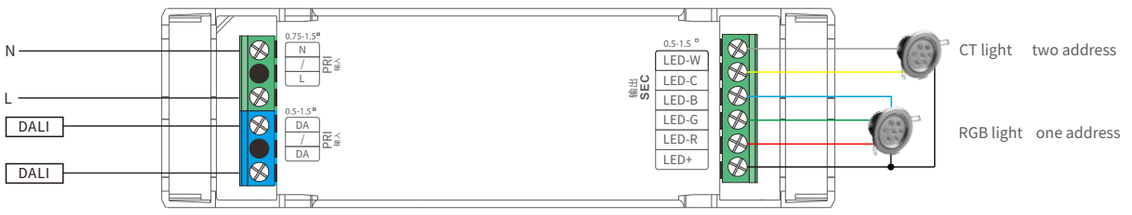


Wire diameter:0.75-1.5㎡(20-16AWG)
Strip length:5-6mm

Wire diameter:0.5-1.5㎡(22-16AWG)
Strip length:5-6mm

* Set through the NFC Lighting APP, connect one or more dimmable lights for synchronous control, occupying one address.

Multi-address RGB+CT wiring method

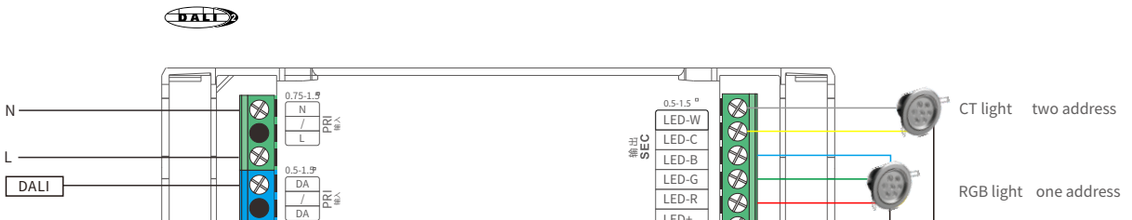


Wire diameter:0.75-1.5㎟(20-16AWG)
Strip length:5-6mm

Wire diameter:0.5-1.5㎟(22-16AWG)
Strip length:5-6mm

* Set through the NFC Lighting APP, connect one RGB light and one color temperature light for independent control, occupying 2 addresses.

Multi - address XY + CT wiring method

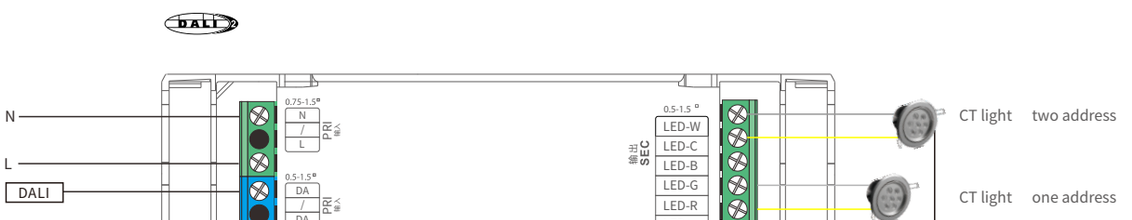


Wire diameter:0.75-1.5㎟(20-16AWG)
Strip length:5-6mm

Wire diameter:0.5-1.5㎟(22-16AWG)
Strip length:5-6mm

* Set through the NFC Lighting APP, connect one RGB light and one color temperature light for independent control, occupying two addresses.

Multi-address 2×CT Wiring Method

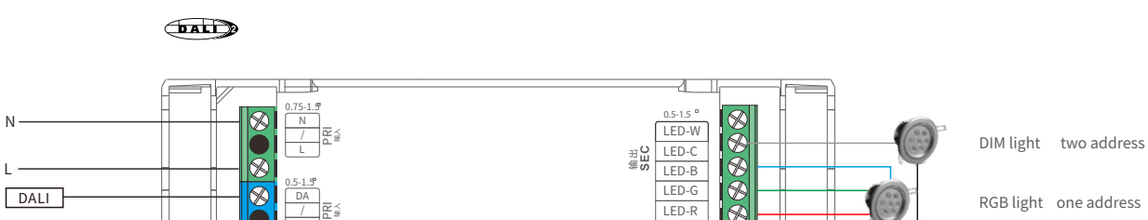


Wire diameter:0.75-1.5㎟(20-16AWG)
Strip length:5-6mm

Wire diameter:0.5-1.5㎟(22-16AWG)
Strip length:5-6mm

* Set two color temperature lights through the NFC Lighting APP for independent control, occupying two addresses.

Multi-address XY+W Wiring Method



Wire diameter:0.75-1.5㎟(20-16AWG)
Strip length:5-6mm

Wire diameter:0.5-1.5㎟(22-16AWG)
Strip length:5-6mm

* Set one RGB light and one dimmable light through the NFC Lighting APP for independent control, occupying two addresses.

Table of Typical Corresponding Parameters for Current

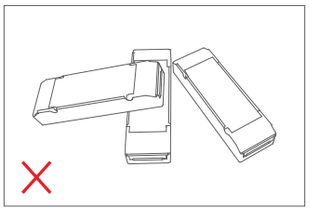
The typical 4 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 50-100mA adjustable in 1mA step				
Output Current	50mA(1 Channel)	100mA(1 Channel)	50mA(5 Channels)	100mA(5 Channels)
Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc
Output Power	0.45-2.1W	0.9-4.2W	2.25-10.5W	4.5-21W

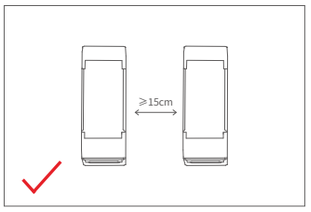
Installation procedure

1. Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.

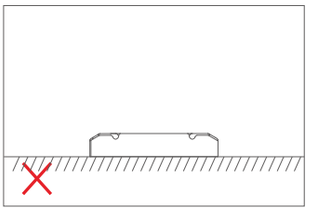
2. Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

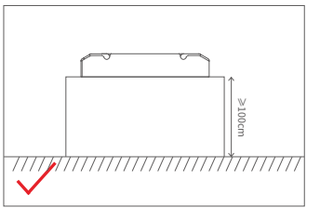
Installation Precautions





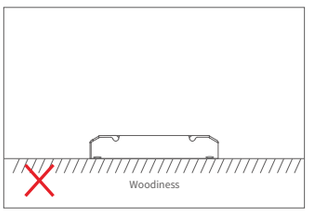
Please do not stack the products. The distance between two products should be ⩾15cm so as not to affect heat dissipation and the lifespan of the products.

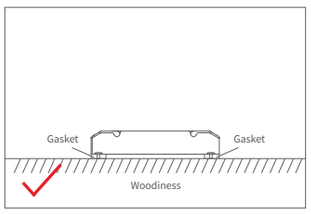




Please do not place the products on the floor. The distance between the product and the floor should be ⩾100cm so as to avoid signal interference.

Note: The installation should be in line with the environmental operating temperature of the product. Do not install it inside the lamp to avoid exceeding the environmental operating temperature of the product, which may affect the product's lifespan.





Do not fix the product screws tightly against the wooden board. Instead, add a washer with a thickness of ⩾7mm under the fixing screws. Leaving some gaps can effectively dissipate heat, preventing any impact on the product's heat dissipation performance and service life.

Use the NFC Lighting APP

Scan the QR code below with your mobile phone and follow the prompts to complete the APP installation (According to performance requirements, you need to use a NFC-capable Android phone, or an iphone 8 and later that are compatible with iOS 13 or higher).

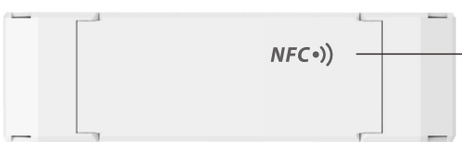
✱ Before you begin setting the parameters of the driver on the NFC programmer or via the APP, please make sure the driver is powered off.

Read/Write the LED driver

Use your NFC-capable phone to read the driver parameters, then set the output current, fade time, power-on status, other parameters. Save your settings and hold your phone close to the driver again, so the parameters can be easily written to the driver.

1. Read the LED driver

On the APP home page, click【Read/Write LED driver】, then keep the programmer' s sensing area close to the NFC logo of the driver to read the driver parameters.

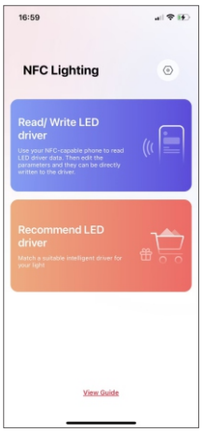


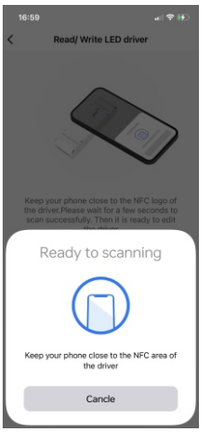
2. Edit the parameters

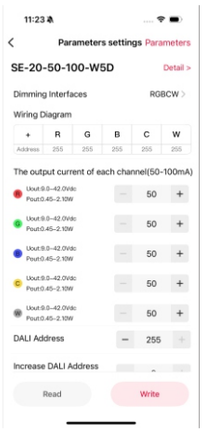
Click [Parameter settings] to edit more advanced parameters such as output current, DALI address, dimming curve, and DALI advanced template.

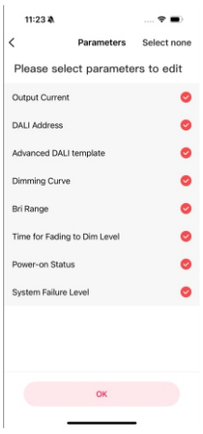
3. Write to the driver

After completing the parameter editing, click [Write] in the upper right corner, bring the phone's sensing area close to the NFC identification point of the driver, and the driver parameters can be successfully written.

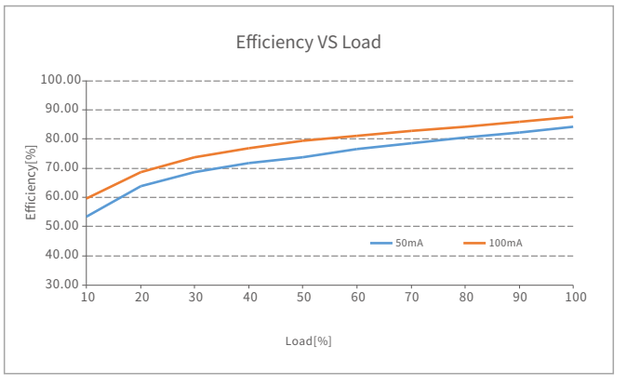


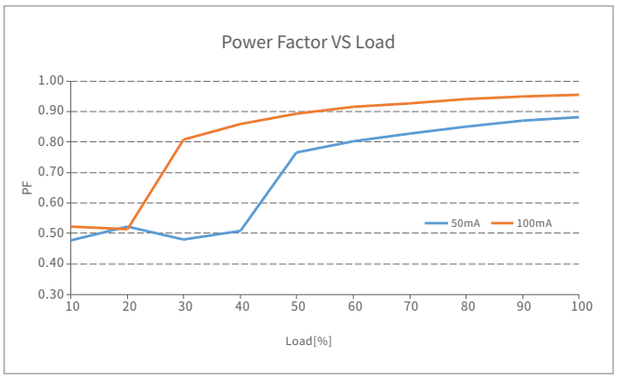


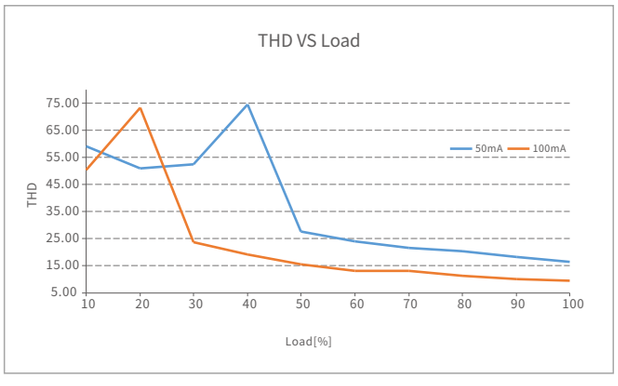


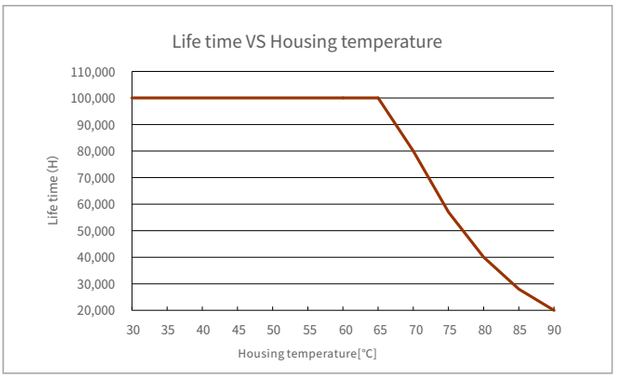


Relationship Diagrams





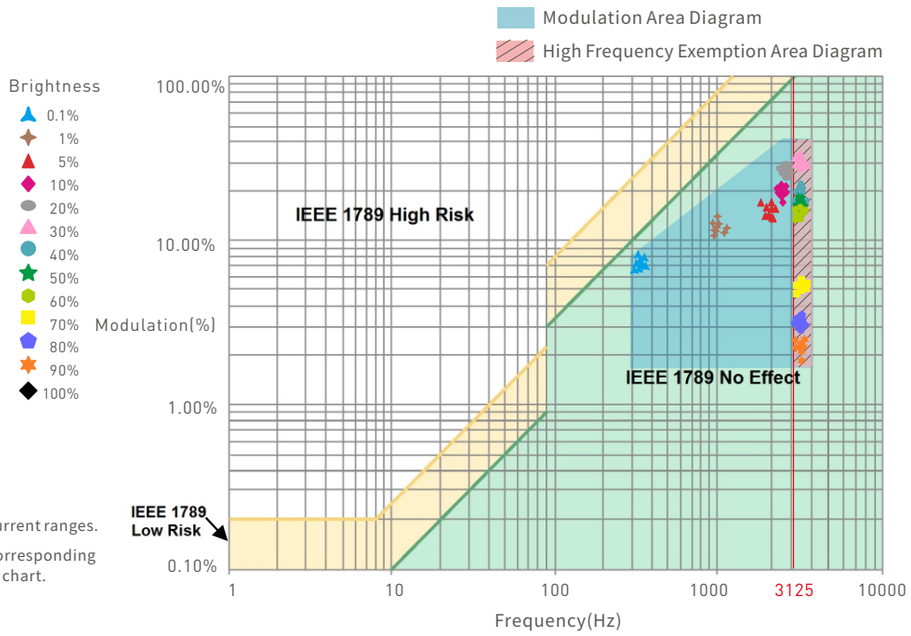




Flicker Test Sheet

IEEE 1789

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



Marks in the right chart were tested results of different current ranges.

The output frequeny is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

Packaging Specifications

Model	SE-20-50-100-W5D
Carton Dimensions	290×275×106mm(L×W×H)
Quantity	20 PCS/Layer; 2 Layers/Carton; 40 PCS/Carton
Weight	0.11 kg/PC; 52 kg±5%/Carton

Packaging Image

Inner Packaging Box

Carton Packaging

Transportation and Storage

1. Transportation

Products can be shipped via vehicles, boats and planes.

During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.

Attentions

- This product must be installed and adjusted by a qualified professional.
- LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices .
- Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
- Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a
- accident.
  If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.

* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

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

Warranty exclusions below:

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

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

LTECH

SE-20-50-100-W5D

DALI-2

LED智能色温驱动器(恒流型)

NFC

- 超小体积、轻薄、免螺丝端盖设计；
- 外壳采用科思创/三星PC阻燃V0级原料；
- 8种DT6,DT8设备类型集成在一个设备中,可通过NFC Lighting APP 设置；其中RGBCW、W、2*CT(同步)、XY为单地址,2*CT(异步)、XY+CT、RGB+CT、XY+W为双地址；
- 通过手机APP可更改输出电流、通电渐变时间等参数,实现驱动器数据交互功能；
- 电流档位步进值设置低至1mA,兼容性更高更精细；
- 带软启动渐亮功能,让人眼视觉更舒服
- T-PWM 超深度调光技术,调光深度可达0.1%；
- 0-100%全程调光无可视频闪,高频豁免考核级别；
- 欧盟ERP空载功耗、网络待机功耗＜0.5W；
- 空载保护,防止接触不良损坏LED灯具；
- 过温、过载、短路保护,可自动恢复；
- 适合室内Ⅰ、Ⅱ、Ⅲ类灯具应用；
- 常规使用下寿命可达10万小时；
- 5年保修期(采用红宝石电容)。

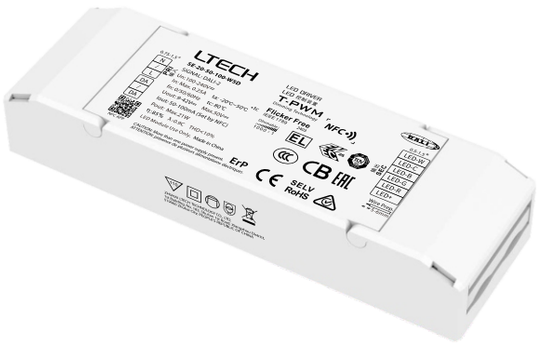
DALI 2

RGBCW彩光调节

T-PWM
超深度调光技术

无频闪
IEEE1789
高频豁免考核级别

Dimmable:
1000：1



SELV RoHS ErP IS15885 R-41129631

认证图标仅代表产品正在进行这一系列的认证申请,认证资质以产品实物为准。

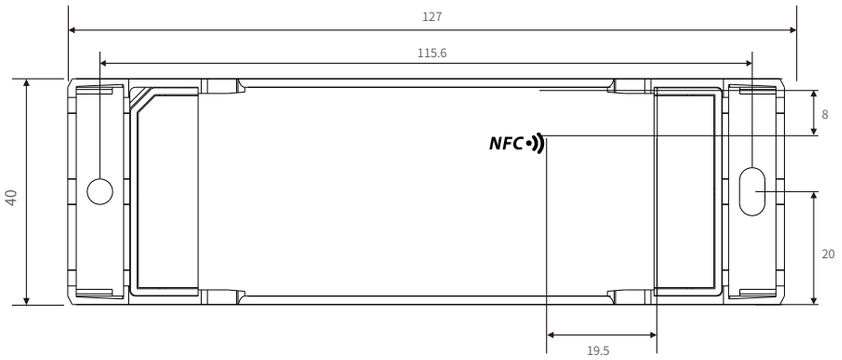
NFC 多电流设置 | 恒功率设计 | 过温保护 | 过压保护 | 过载保护 | 短路保护

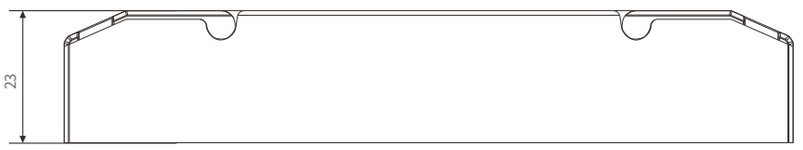
技术参数

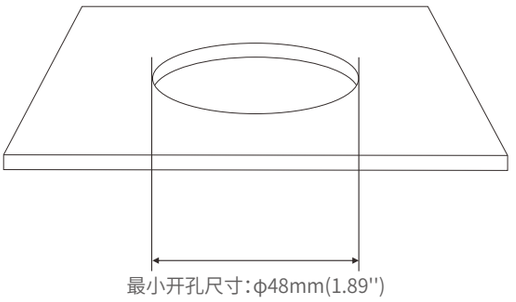
型号		SE-20-50-100-W5D		
特征	输出类型	恒流		
	调光接口	DALI-2		
	输出特征	隔离		
	防护等级	IP20		
	绝缘等级	II类(适用于室内Ⅰ、 Ⅱ、Ⅲ类灯具)		
输出	输出电压	9-42Vdc		
	最大输出电压(空载)	≤50Vdc		
	工作电流范围	50-100mA(通过NFC APP设置)		
	负载功率范围	0.45W-21W		
	调光范围	0.1~100%,调光深度:0.1%		
	电流纹波	<5%(输出最大电流非调光状态)		
	电流精度	±5%		
	PWM频率	≤3600Hz		
输入	直流电压范围	100-240Vdc		
	交流电压范围	100-240Vac		
	直流电流范围	0.09-0.25A		
	应急输出系数	EoF;=98%		
	额定电压	115Vac/230Vac		
	频率范围	0/50/60Hz		
	输入电流	≤0.25A/115Vac,≤0.13A/230Vac		
	功率因数	PF>0.95/115Vac(满载),PF>0.9/230Vac(满载)		
	谐波THD	THD≤10%/230Vac(满载)		
	效率(Typ.)	85%(满载)		
	浪涌电流	冷启动,15A(在50%Ipeak下测twidth=102us)/230Vac		
	抗浪涌	L-N:2KV		
	漏电流	Max.0.24mA		
环境	工作温度	ta:-20~50°C tc:80°C		
	工作湿度	20~95%RH,无冷凝		
	储存温度/湿度	-40~80°C/10~95%RH		
	温度系数	±0.03%/°C(-20-50°C)		
	耐振动	10-500HZ,2G12分钟/周期,X,Y,Z轴各72分钟		
保护	过载保护	负载超过额定功率≥1.02倍时自动保护,异常排除自动恢复		
	过温保护	温度恢复到正常值异常排除		
	过压保护	超过空载电压值进入保护		
	短路保护	短路关闭输出,检测正常后自动恢复		
安规和电磁规格	耐压	输入对输出：3750Vac≦5mA/60S		
	绝缘阻抗	输入对输出：100MΩ/500VDC/25°C/70%RH		
	安全规范	CCC	中国	GB19510.1，GB19510.14
		TUV	德国	EN61347-1，EN61347-2-13，EN62493
		CB	CB成员国	IEC61347-1，IEC61347-2-13
		CE	欧盟	EN61347-1，EN61347-2-13，EN62384
		KC	韩国	KC61347-1，KC61347-2-13
		EAC	俄罗斯	IEC61347-1，IEC61347-2-13
		RCM	澳洲	AS61347-1，AS61347-2-13
		ENEC	欧洲	EN61347-1，EN61347-2-13，EN62384
		UKCA	英国	BSEN61347-1,BSEN61347-2-13,BSEN62493
		BIS	印度	IS15885(PART2/SEC13)
		CUL	加拿大	CSAC22.2No.250.13
		UL	美国	UL8750
	电磁兼容发射	CCC	中国	GB/T17743，GB17625.1
		CE	欧盟	EN55015，EN61000-3-2，EN61000-3-3，EN61547
		KC	韩国	KSC9815,KSC9547
		EAC	俄罗斯	IEC62493，IEC61547，EH55015
		RCM	澳洲	EN55015，EN61000-3-2，EN61000-3-3，EN61547
		UKCA	英国	BSENIEC55015,BSENIEC61000-3-2,BSEN61000-3-3,BSEN61547
		CUL	加拿大	ICES-005
		UL	美国	FCCpart15B
	电磁兼容抗扰度	EN61000-4-2,3,4,5,6,8,11,EN61547		
ErP	功耗	网络待机功耗	＜0.5W(通过指令开关后)	
		空载功耗	＜0.5W(不接灯具时)	
	频闪/频闪效应	IEEE1789	满足无影响/高频豁免考核级别	
		CIESVM	PstLM≤1.0,SVM≤0.4	
	DF	相位因素	DF≥0.9	
其他	产品重量	100g±10g		
	产品尺寸	127×40×23mm(L×W×H)		

尺寸图

单位：mm



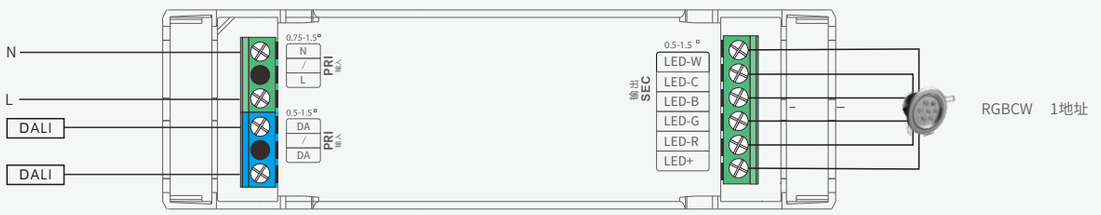




最小开孔尺寸：φ48mm(1.89'')

连接应用图

单地址RGBCW接线方式

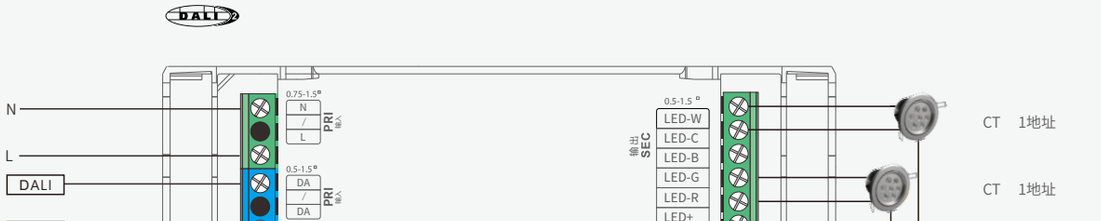


线径:0.75-1.5²(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5²(22-16AWG)
剥线长度:5-6mm

* 通过 NFC Lighting APP设置,接1个RGBCW灯,占用1个地址。

单地址2*CT接线方式

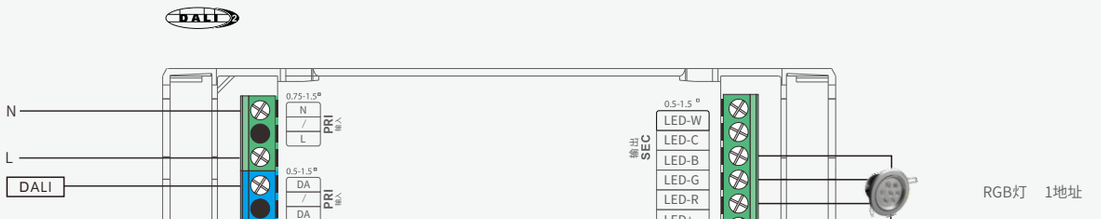


线径:0.75-1.5²(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5²(22-16AWG)
剥线长度:5-6mm

* 通过 NFC Lighting APP设置,接2个色温灯,同步控制,占用1个地址。

单地址XY接线方式

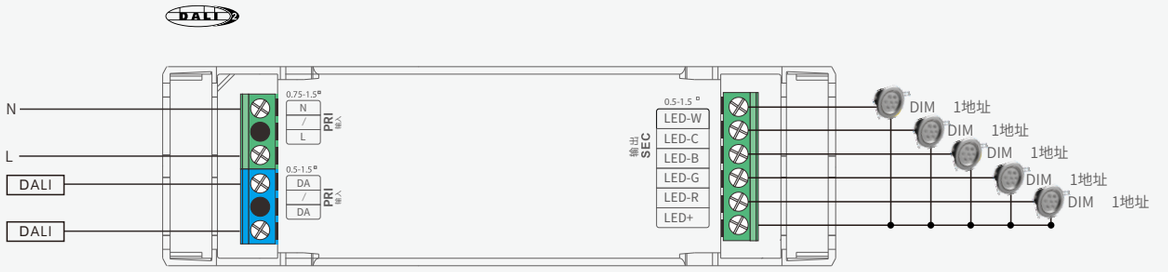


线径:0.75-1.5²(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5²(22-16AWG)
剥线长度:5-6mm

* 通过 NFC Lighting APP设置,接1个RGB灯,占用1个地址。

单地址W接线方式

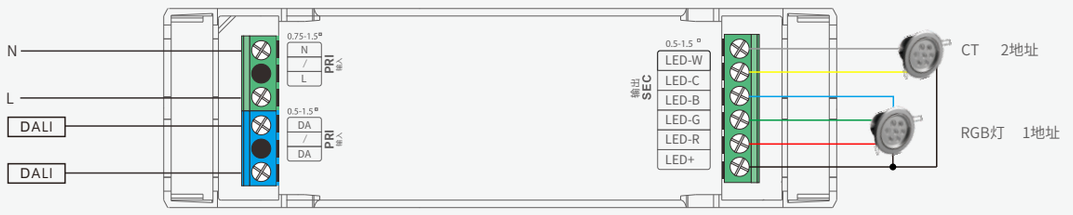


线径:0.75-1.5²(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5²(22-16AWG)
剥线长度:5-6mm

* 通过 NFC Lighting APP设置,接1个或多个调光灯,同步控制,占用1个地址。

多地址RGB+CT接线方式



线径:0.75-1.5㎡(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5㎡(22-16AWG)
剥线长度:5-6mm

* 通过 NFC Lighting APP设置,接1个RGB灯和1个色温灯,独立控制,占用2个地址。

多地址XY+CT接线方式

线径:0.75-1.5㎡(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5㎡(22-16AWG)
剥线长度:5-6mm

* 通过 NFC Lighting APP设置,接1个RGB灯和1个色温灯,独立控制,占用2个地址。

多地址2*CT接线方式

线径:0.75-1.5㎡(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5㎡(22-16AWG)
剥线长度:5-6mm

* 通过 NFC Lighting APP设置,接2个色温灯,独立控制,占用2个地址。

多地址XY+W接线方式

线径:0.75-1.5㎡(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5㎡(22-16AWG)
剥线长度:5-6mm

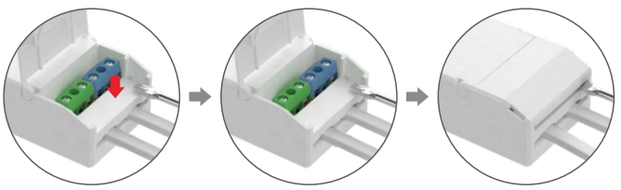
* 通过 NFC Lighting APP设置,接1个RGB灯和1个调光灯,独立控制,占用2个地址。

典型电流对应参数表

下图典型4组电流数据供选型参考，均可通过手机APPNFC设置更多电流，可设置范围在50-100mA，电流步进值低至1mA				
输出电流	50mA（单路）	100mA（单路）	50mA（5路）	100mA（5路）
输出电压	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc
输出功率	0.45-2.1W	0.9-4.2W	2.25-10.5W	4.5-21W

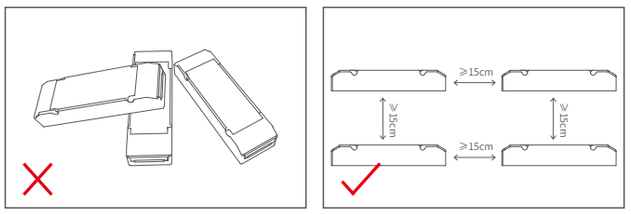
安装步骤

1.在侧板处使用螺丝批撬起保护盖，
并撬起压线板将其拆下后，按照接线图进行接线。

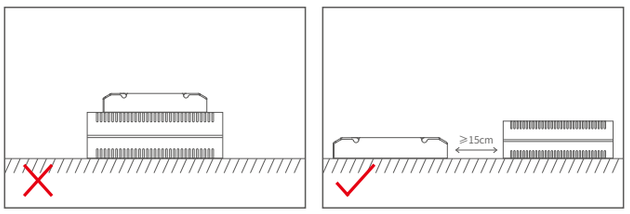


2.装上压线板并向下按压，
使用小一字螺丝批按住压线板的同时，将保护盖向下扣合即可。

安装注意事项

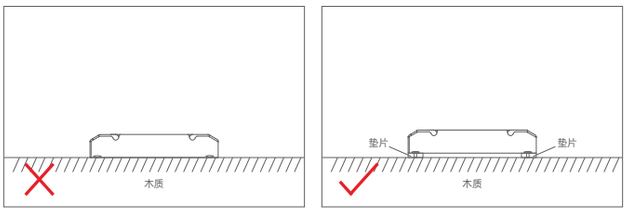


请勿将产品堆叠摆放，产品与产品间隔距离应≥15cm，避免影响产品散热和使用寿命。



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

注：安装需符合产品的环境工作温度，切勿安装到灯具内部，以免超出产品环境工作温度影响产品寿命。



请勿将产品螺丝固定紧贴于木板，应在固定螺丝下增加≥7mm的垫片，留点空隙可以有效散热，避免影响产品散热和使用寿命。

搭配NFCLightingAPP使用

通过手机扫描下方二维码，按提示完成APP安装。(因性能需求，要求手机型号苹果：iPhone8及以上、且操作系统iOS13及以上；安卓：具备NFC功能机型)

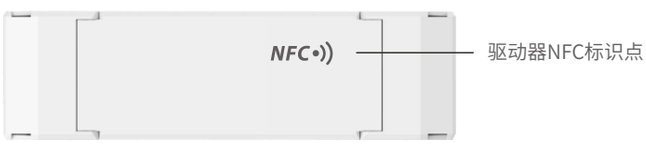
＊ 设置驱动器参数时，必须在驱动器断电情况下进行操作。

读/写智能电源

使用手机，通过NFC读取驱动器信息，根据需求设置参数后，可直接写入驱动器。

1.读取驱动器

在APP“ 首页”点击【读/写智能电源】，将手机感应区域靠近驱动器NFC标识点，读取驱动器参数。

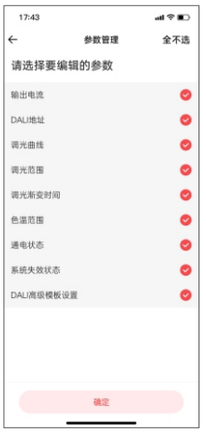


2. 编辑参数

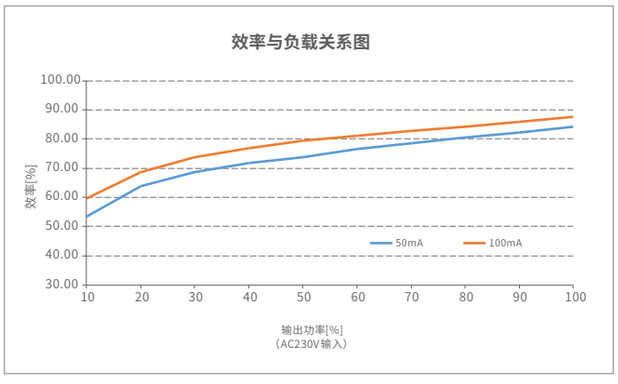
点击【参数管理】可编辑输出电流、DALI地址、调光曲线、DALI高级模板等更多高级参数。

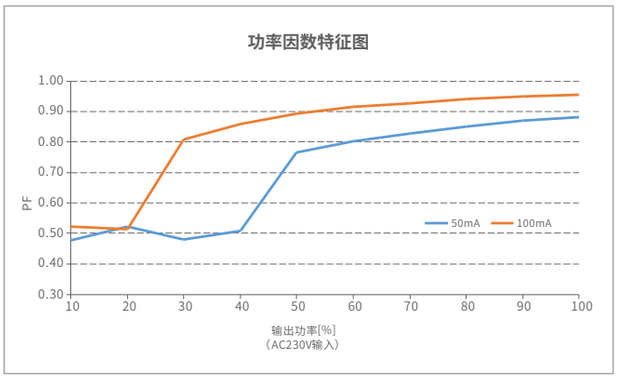
3.写入驱动器

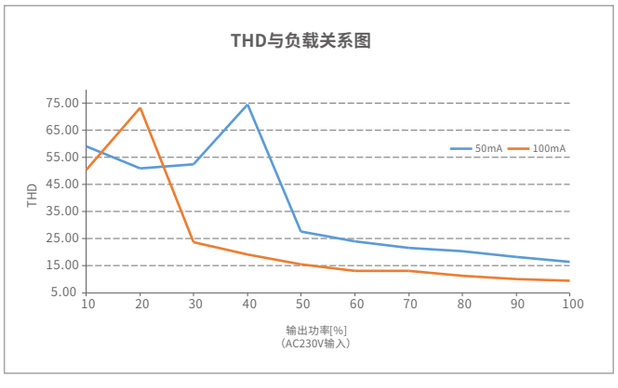
参数编辑完成后，点击右上角【写入】，将手机感应区域靠近驱动器NFC标识点，即可成功写入驱动器参数。

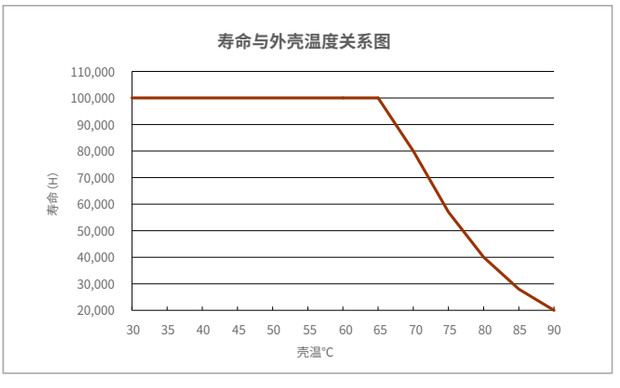


关系图表







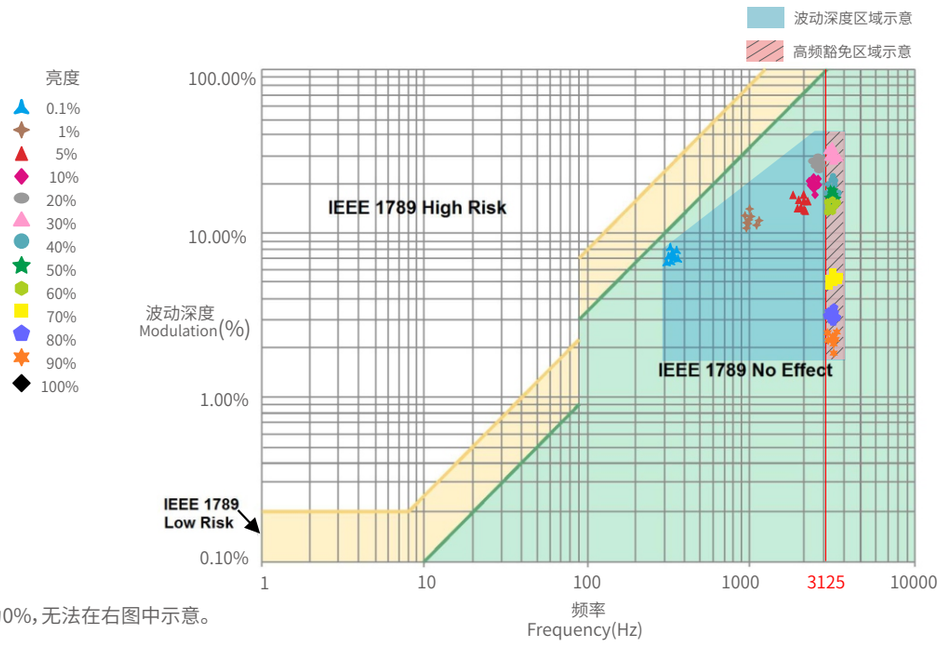


SE-20-50-100-W5D

频闪测试表

IEEE1789

低风险区域(LowRisk)的波动深度(Modulation)限值	
光输出波形频率 f	限值(%)
f ≤8Hz	0.2
8Hz< f ≤90Hz	0.025× f
90Hz< f ≤1250Hz	0.08× f
f >1250Hz	免除考核
无风险区域(NoEffect)的波动深度(Modulation)限值	
光输出波形频率 f	限值(%)
f ≤10Hz	0.1
10Hz< f ≤90Hz	0.01× f
90Hz< f ≤3125Hz	(0.08/2.5)× f
f >3125Hz	免除考核(高频豁免)



右图标识为不同电流档的测试结果。
100%亮度时输出频率为0Hz，对应波动深度为0%，无法在右图中示意。

包装规格

型号	SE-20-50-100-W5D
包装箱尺寸	290×275×106mm(L×W×H)
数量	20PCS/层；2层/箱；40PCS/箱
重量	0.11kg/PC;52 kg±5%/箱

包装样式图

内包装盒

运输和贮存

1.运输
产品适用车、船、飞机交通运输工具运输。
在运输中，应使用遮蓬进行防雨和防晒，并保持文明装卸，不应有剧烈振动、撞击等。

2.贮存
贮存符合I类环境的规定。贮存期限超过6个月的产品建议重新检验，合格后方可使用。

注意事项

- 本产品请由具有专业资格的人员进行调试安装；
- 雷特产品（专有型号除外）不能防水防雷，需避免日晒雨淋，如安装在户外，请用防水箱和防雷装置；
- 良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境；
- 请检查使用的工作电压是否符合产品的参数要求；
- 通电调试前，确保所有接线正确且牢固，以免短路损坏部件，触发事故；
- 如果发生故障，请勿私自维修；如果有疑问，请联系供应商。

* 本说明书的内容如有变更，恕不另行通知。若内容与您使用的功能有所不同，则以实物为准。如有疑问，欢迎向我司授权的经销商咨询。

保修条例

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

非保修条例:
属下列情况不在免费保修或更换服务范围之内:

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

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