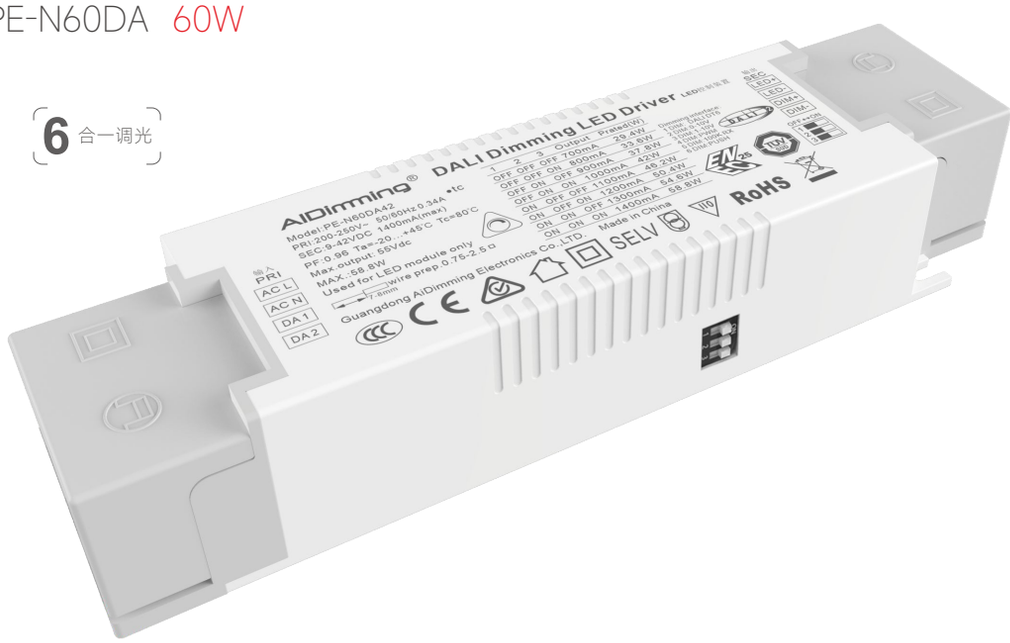
PE-N60DA 60W



6 合一调光

5 年质保

RoHS SELV CE Class 2

调光 | Push DIM | 0-10V 调光 | 1-10V 调光 | 100K R | 10V PWM | 会员

无频闪 | TUV | 多电流 | PF>0.95 高功率因数 | η>0.87 高效率 | 过温保护 | 过载保护 | 短路保护

特性:

1.DALI标准接口,标准的DT6协议,符合DALI 144项标准
2.DALI2认证,DALI会员
3.采用数字控制输出完全无频闪
4.国际通用交流输入200-250V范围
5.自然风冷,防潮,导热硅胶散热工艺
6.深度调光设计
7.多重保护功能
8.输出快压端子,安全便捷
9.压线设计,方便快捷
10.8档电流选择

应用:

1.LED单色光源
2.别墅智能照明
3.可接入无线智照明系统
4.博物馆照明
5.高端商业照明

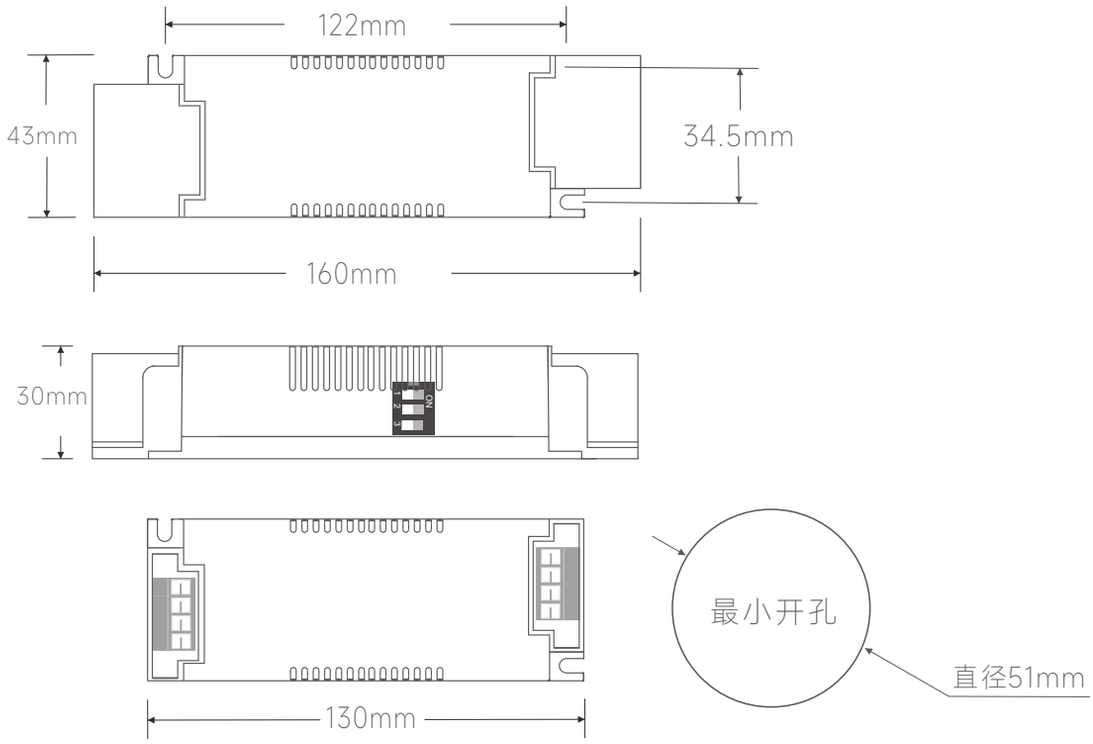
产品描述:

1.采用标准的DALI信号控制亮度,系统可设定缓亮缓灭功能,所用原料均采用一线品牌,进口芯片超深度调光设计, 匹配市面多种DALI智能调光系统和KNX协议智能系统.精准控制亮度,底部采用硅胶导热工艺使电子元件散热平衡使用更稳定.

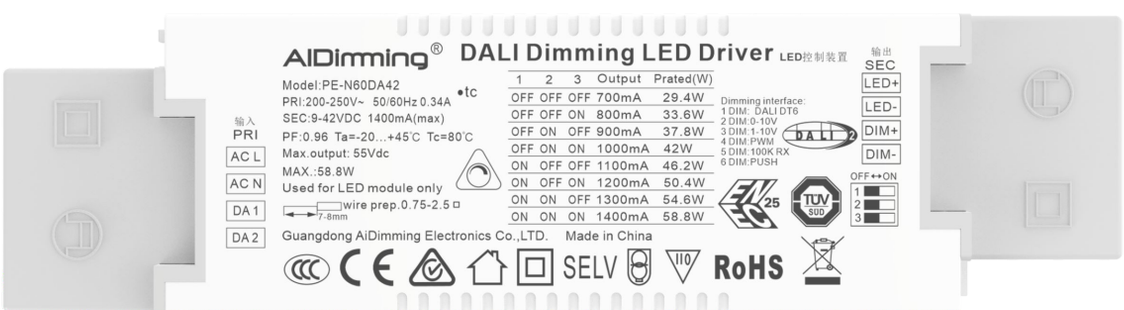
技术参数:

型号		PE-N60DA42
输出	工作电压范围	9-42Vdc
	最大输出电压	42Vdc
	空载输出电压	55Vdc
	工作电流范围	700/800/900/1000/1100/1200/1300/1400mA
	负载功率范围	6.3W~58.8W
	频闪级别	无频闪
	调光范围	0~100%，LED从0.3%开始调光
	PWM频率	>3600Hz
	电流精度	±5%
	掉电模式	掉电记忆
输入	调光接口	DALI Dt6 / 0-10v 1-10V 信号接口控制电流<2mA / PUSH
	输入电压	200-250Vac
	频率范围	50/60Hz
	输入电流	<0.34A ac230v
	功率因数	PF>0.98/230V ac(满载)
	THD	230Vac@THD <8% (满载)
	效率 (Typ.)	87%
	浪涌电流	冷起动30A@230Vac ac (满载)
	抗浪涌	L-N: 1.5kV
	漏电流	<0.25mA/230Vac ac (在50% Ipeak下测试twidth=58.4us)
环境	工作温度	ta: 45°C ,tc: 80°C
	工作湿度	20 ~ 95%RH, 无冷凝
	储存温度 湿度	-40 ~ 80°C , 10~95%RH
	温度系数	±0.03%/°C(0-50)°C
	耐振动	10-500HZ, 2G 12分钟/周期，X,Y,Z轴各72分钟。
保护	过温保护	根据PCB温度超标情况(≥110 °C)智能调节电流输出或关闭，可自动恢复。
	过载保护	负载功率≥102%, 输出电流变低，可自动恢复
	短路保护	输出线路短路自动关闭，可自动恢复
	空载保护	无负载时恒压输出
安规和电磁	耐压	输入对输出：3750Vac
	绝缘阻抗	输入对输出：100MO/500VDC/25°C/70%RH
	安全规范	IEC/EN61347-1, IEC/EN61347-2-13
	电磁兼容发射	EN55015, EN61000-3-2 Class C, IEC61000-3-3
	电磁兼容抗扰度	EN61000-4-2,3,4,5,6,8,11, EN61547
	频闪测试标准	IEEE 1789
其他	产品尺寸	160(130)×43×30mm(L×W×H)
	包装尺寸	白盒包装
	产品重量	260g±10g

产品尺寸:



产品标识:

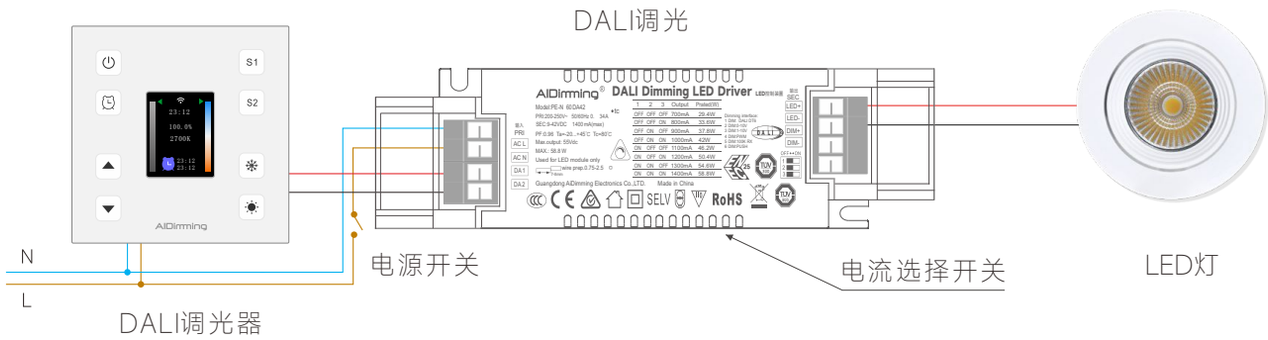


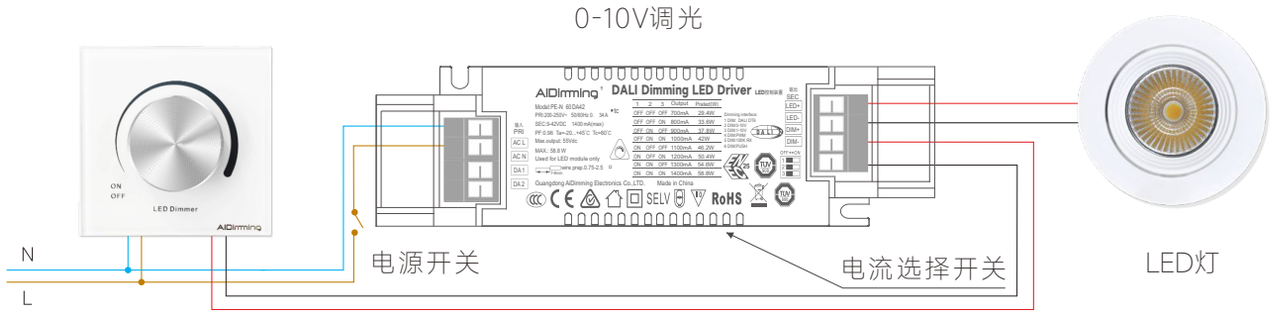
电流档位设定:

DIP开关快速选择8档电流值设定.

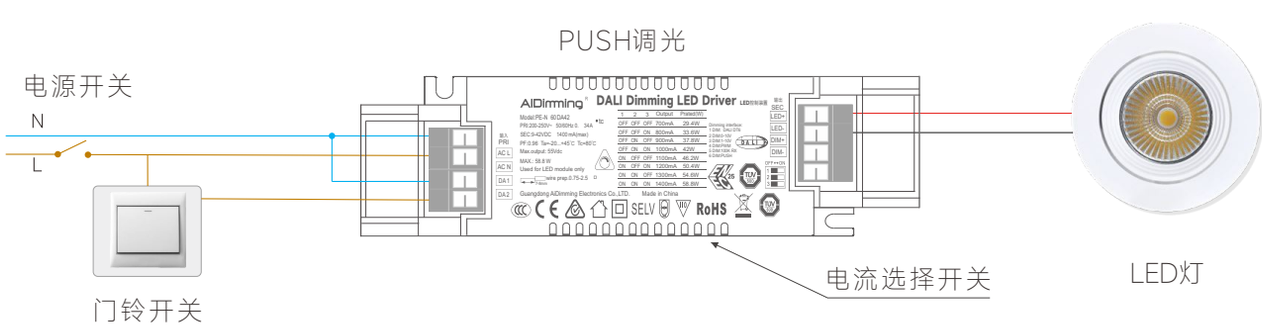
产品型号	DIP开关									
PE-N60DA42	电流输出	700mA	800mA	900mA	1000mA	1100mA	1200mA	1300mA	1400mA	OFF↔ON
	电压输出	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	
	功率输出	6.3W-29.4W	7.2W-33.6W	8.1W-37.8W	9W-42W	9.9W-46.2W	10.8W-50.4W	11.7W-54.6W	12.6W-58.8W	

连接应用图:





注:信号控制接口禁止接入高于15V电压,否则会损坏电源



Push 调光:

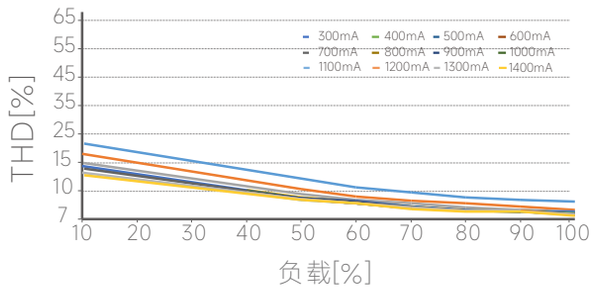
- 开关:门铃开关(常开)
- 开关控制:短按.
- 无级调光:长按
- 每隔一次长按，明暗度会向相反方向调整.
- 调光记忆:当再次开关时，灯光会回到先前调整的亮度水平.

接线规格:

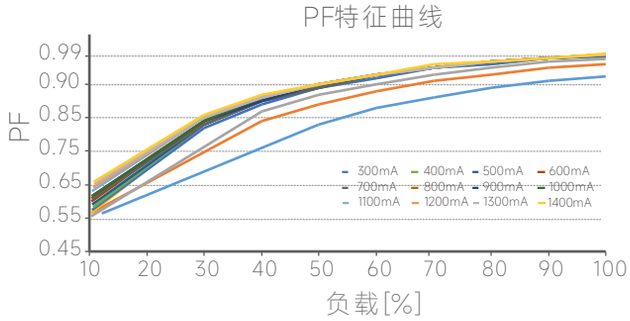
1.输入端接线： 适合线规22AWG-14AWG (0.5mm2 – 1.5mm2),剥线要求5-7mm上锡.
2.输出端接线： 适合线规22AWG-12AWG (0.5mm2 – 1.5mm2),剥线要求5-7mm上锡.

工作曲线:

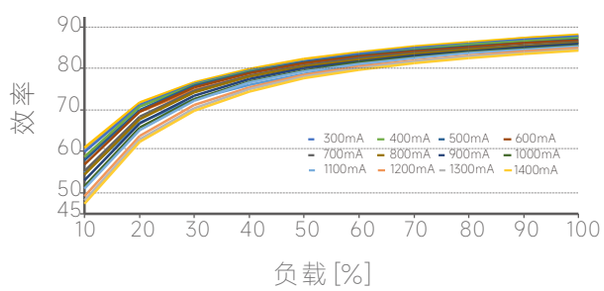
THD失真特征曲线



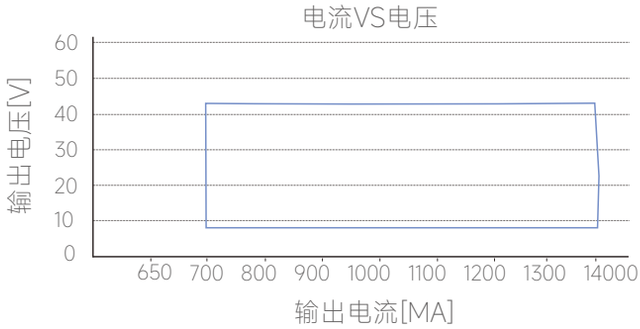
PF特征曲线



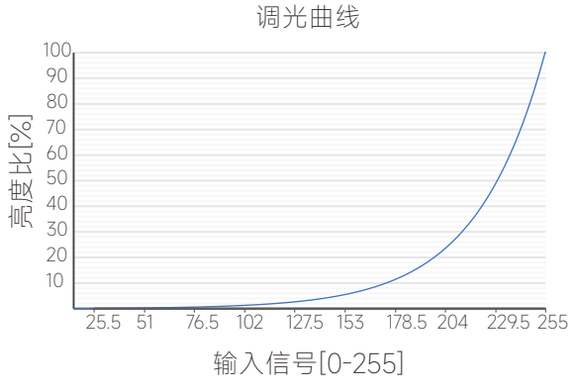
效率VS负载



电流VS电压



调光曲线



使用指导:

如未特别说明，所有规格参数均在输入为230VAC、额定负载25℃环境温度下进行量测。
产品输入端有个输入线压线盖，带自锁卡紧，用一字锲丝刀均匀用力向上慢慢翘开，露出输入端子，接交流火线L和零线N，输出端子按产品标识接线，注意正负极。
注意事项:
注1:在使用本电源时，请注意区分输入端和输出端,请正确接线,核对无误后才能通电;
注2:请先接好DC 输出端的负载,确认无误,再开电源；在恒流模式下,如果开路通电,请关断电源后,必须等输出端储存的电能释放完后,再接LED,否则可能烧坏LED;
注3:本款电源驱动只限于 LED 灯具使用，产品输入电压范围为 AC 200-250V,使用在规定的输出电压电流范围内，使用环境温度在 -20 到+45 摄氏度，并且表面不能覆盖阻挡产品散热的隔热棉等物品,符合产品使用条件的环境下，本产品享有五年免费质保。

1.电源在第一次装置好电气连接后,出现不亮,请切断AC输入端并检查:
1).DC输出端有无接触不良。
2).DC输出端正负极是否有接反。
3).AC输入端有无接触不良,排除以上故障再通电测试。

2.在装置接好电气连接后,LED灯点亮,但LED灯出现闪烁,请切断AC输入电源,检查DC输出端:
1).电源设计参数与实际LED灯的使用参数是否相符。
2).产品在使用过程中如遇其它疑问或问题,请及时联系我公司沟通,反馈不良信息,我公司将积极协助贵公司解决问题。

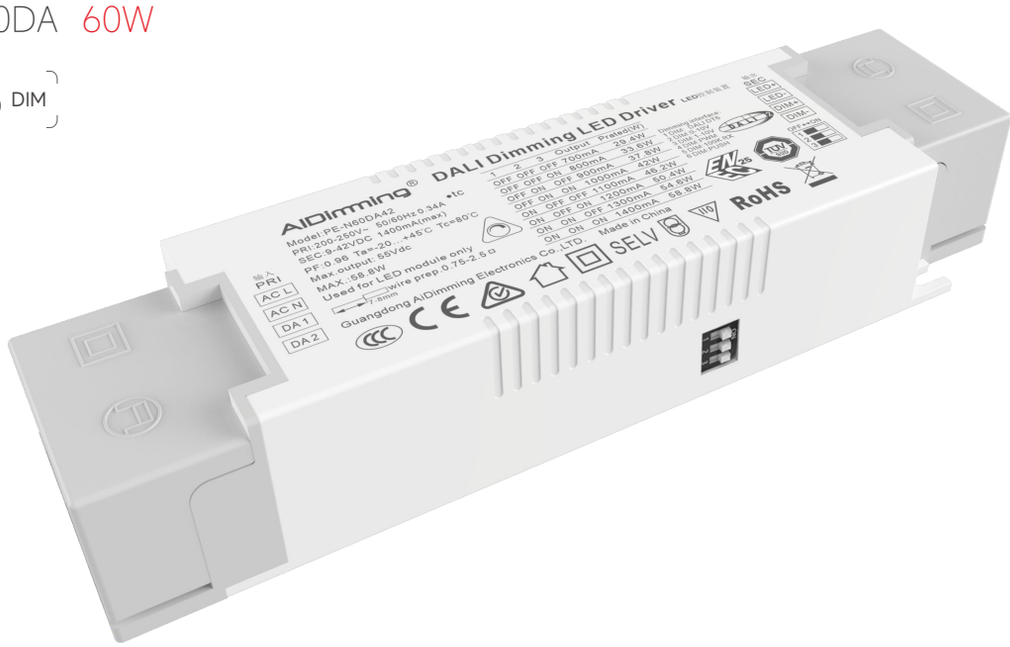
附录DALI简单介绍:

Digital Addressable Lighting inferface (DALI)
数字可寻址照明接口（DALI）
DALI从单元只有在主机请求数据时，才发送数据，即，采用命令应答的方式。
在同一个 DALI 网络中，最多有64个从单元，每个从单元都具备一个独立的地址（Short address）。
也可以将某个从单元分配给某一个组，最多可以同时存在16个组，而且一个从单元可以属于不同的组。
每个单元可以设定16个场景。
DALI 协议的主要特点
1). 异步串行通信
2). 1200波特率，采用曼彻斯特编码格式
3). 两线差分信号
4). 差分电压大于9.5V时，为高电平
5). 差分电压小于6.5V时，为低电平
6). 由主机单元控制通信过程
7). 一个 DALI 总线能够连接64个从机
8). 每个从机都可以被单独寻址
DALI 电气特性
空闲状态下，DALI 总线为高电平，从机单元控制总线的方法
1).输出高电平时，不干预主机的信号即可
2).输出低电平时，直接将 DALI 总线相互短路即可
3).DALI 总线最大电流为250mA
4).不能同时进行双向通信
5).传送数据线最长300米，或压降不能超过2V

产品不质保范围:
1.信号控制接口接入高于15V电压,损坏电源.
2.输入和输出接反,导致电源损坏.
3.电源进水损坏.

PE-N60DA 60W

6 DIM



5 years RoHS SELV CE Class 2

DIM | Member | PUSH DIM | 0-10V DIM | 1-10V DIM | 100K R | 10V PWM

TUV | No Flicker | Multiple Current | PF>0.95 HIGH PF | Over-heat Protection | Over Load Protection | Short Circuit Protection

Features:

1. integrate multiple signal dimming interfaces
2. digital control output flicker free
3. AC input 200-250v range
4. natural air cooling, moisture-proof, heat conducting silicone heat dissipation process
5. deep dimming design
6. multiple protection functions
7. crimping design, convenient and fast
8. 8 gear current selection

Application:

1. Led monochrome light source
2. villa intelligent lighting
3. wireless intelligent lighting system can be accessed
4. museum lighting
5. high end commercial lighting

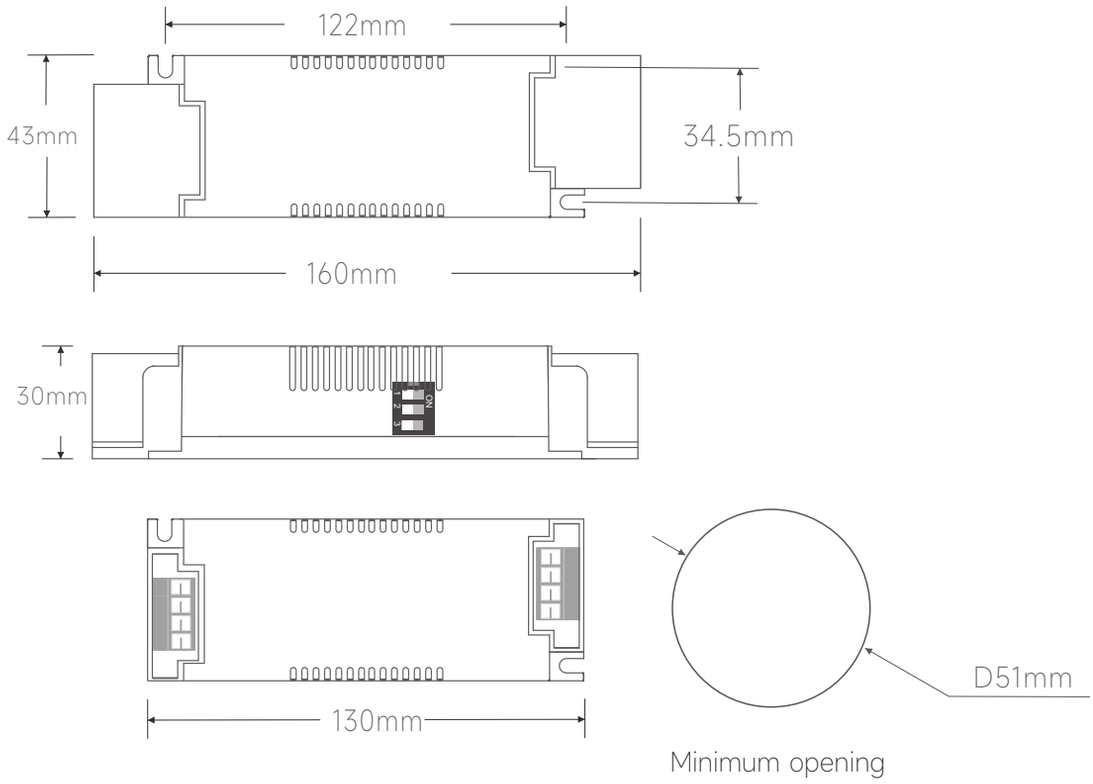
General description:

1. the CPU is used to control the dimming curve and the mixed frequency control to achieve the visual angle perception brightness. The raw materials used are first-line brands and imported chips are designed for ultra deep dimming,It matches a variety of intelligent dimming systems on the market, accurately controls the brightness, comes with a slow start-up and ultra small size design

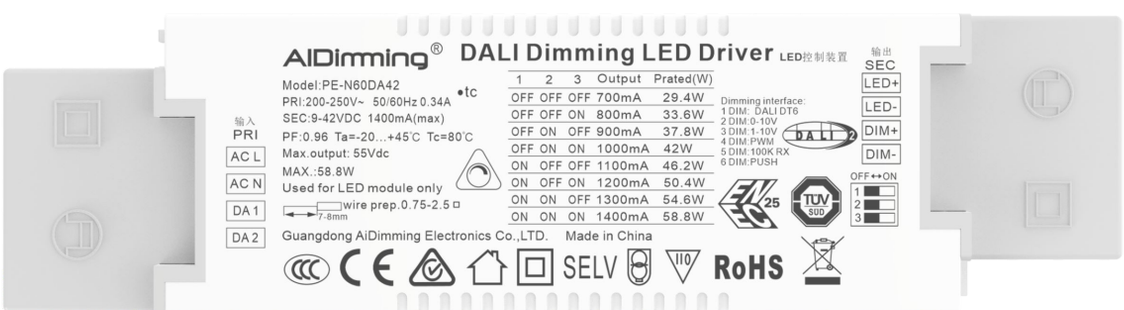
Specification:

Model		PE-N60DA42
OUTPUT	Output Voltage	9-42Vdc
	Max Output Voltage	42Vdc
	Non-load Output Voltage	55Vdc
	Output Current	700/800/900/1000/1100/1200/1300/1400mA
	Output Power	6.3W~58.8W
	Strobe Level	No Flicker
	Dimming Range	0~100%，LEDstart at 0.3%possible.
	PWM Dimming Frequency	>3600Hz
	Current Accuracy	±5%
	Power down mode	memory function when power down
INPUT	Dimming Interface	DALI Dt6 / 0-10V 1-10V signal interface current <2ma / PUSH
	Input Voltage Range	200-250Vac
	Frequency	50/60Hz
	Input Current	<0.34A ac230v
	Power Factor	PF>0.98/230V ac(at full load)
	THD	230Vac@THD <8% (at full load)
	Efficency(typ.)	87%
	Inrush Current(typ.)	cold start30A@230Vac
	Anti Surge	L-N: 1.5kV
	Leakage Current	<0.25mA/230Vac
ENVIRONMENT	Working Temperature	ta: 45°C tc: 80 °C
	Working Humidity	20 ~ 95%RH, non-condensing
	Storage Temp., Humidity	-40 ~ 80°C, 10~95%RH
	Temp.Coefficient	±0.03%/°C(0-50)°C
	Vibration	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.
PROTECTION	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, , auto recovers.
	Over Load Protection	Shut down the output when rated power≥102%, auto recovers.
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.
	Non-load Protection	output Constant Voltage.
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac
	Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547
	Strobe Test Standard	IEEE 1789
OTHERS	Dimension	160(130)×43×30mm(L×W×H)
	Packing	Box
	Weight(G.W.)	260g±10g

Dimensions :



Product Label:

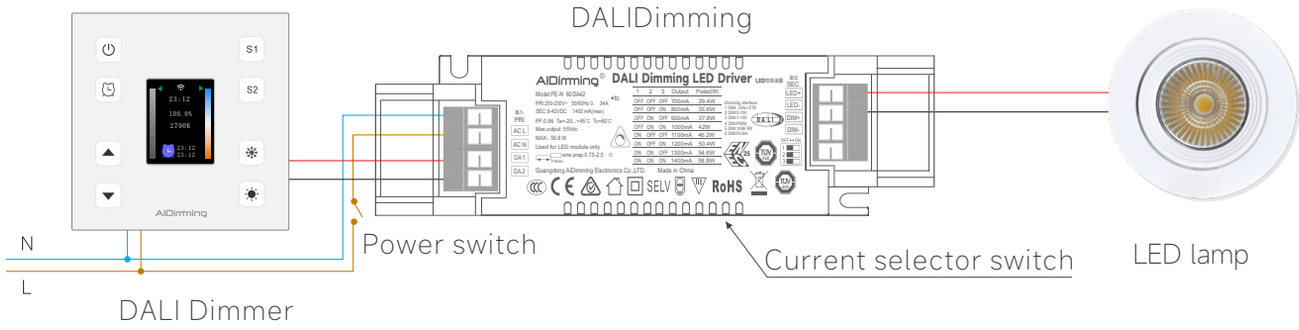


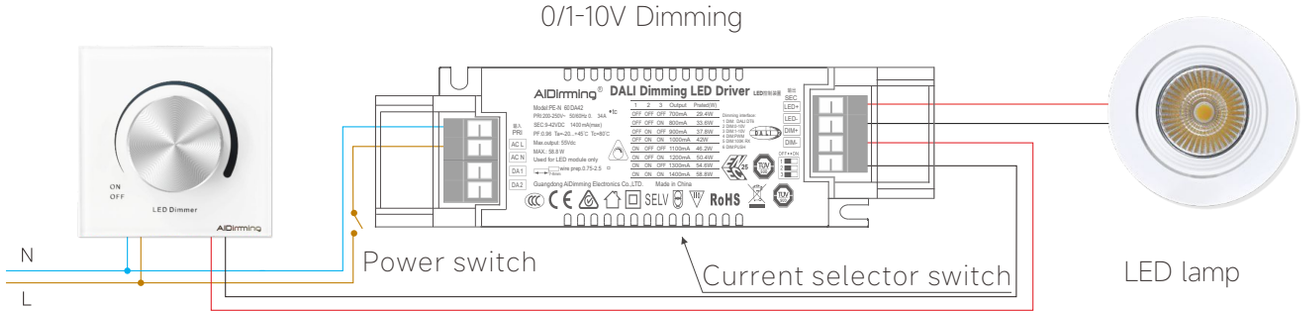
LED Current Selection:

DIP switch for 8 optional currents' quick selection.

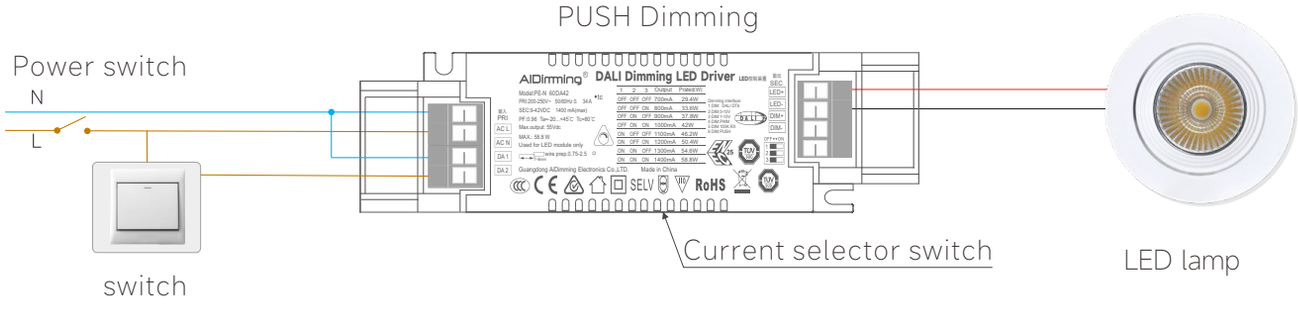
Product model	DIP Switch									
PE-N60DA42	Output Current	700mA	800mA	900mA	1000mA	1100mA	1200mA	1300mA	1400mA	OFF ON
	Output Voltage	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	
	Output Power	6.3W-29.4W	7.2W-33.6W	8.1W-37.8W	9W-42W	9.9W-46.2W	10.8W-50.4W	11.7W-54.6W	12.6W-58.8W	

Dimensions :





Note: it is forbidden to connect the signal control interface
with a voltage higher than 15V, otherwise the power supply will be damaged



Push Dimming:

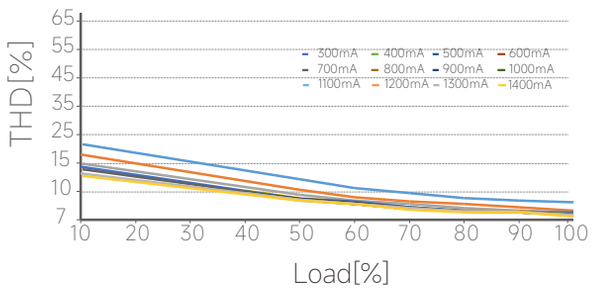
On/off control: Short press.
Stepless dimming: Long press.
With every other long press, the light level goes
to the opposite direction.
Dimming memory: Brightness will be the same as
previously adjusted when turning off and on again.

Wiring:

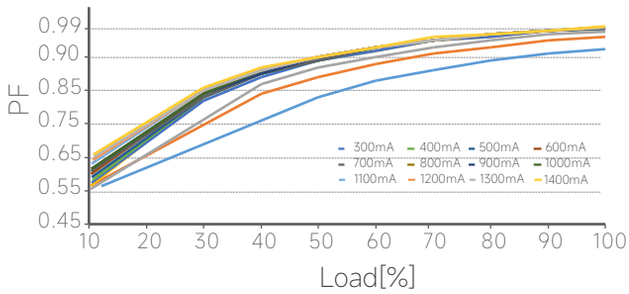
1. Input terminal wiring: suitable for wire gauge 22awg-14awg (0.5mm2 – 1.5mm2), stripping requires 9-10mm tin
2. Output terminal wiring: suitable for wire gauge 22awg-12awg (0.5mm2 – 1.5mm2), stripping requires 6-7mm tin

Working Curve:

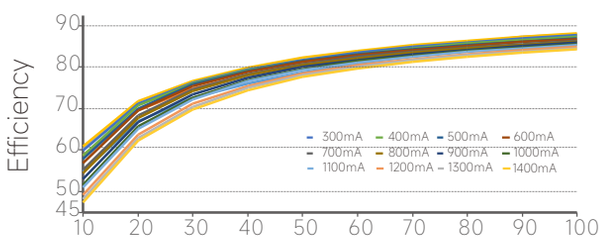
distortion characteristic curve



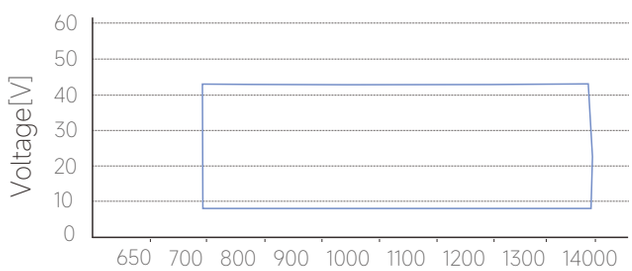
PF characteristic curve



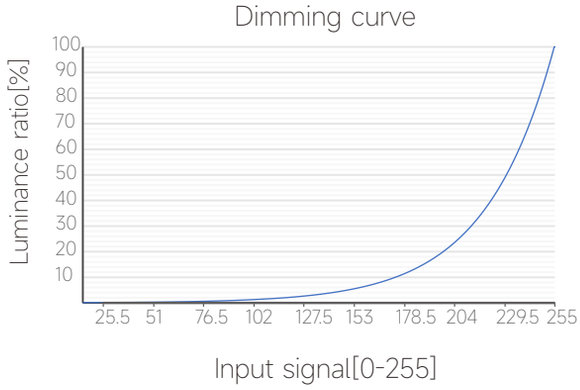
Efficiency VS Load



Current VS Voltage



Dimming curve



The use of guidance:

Unless otherwise specified, all specifications and parameters are measured at 230VAC input, rated load and 25 ℃ Ambient Temperature

This product has a press line cap at the input, with self-locking clamping, it can be opened up with a screwdriver, then you will see the input terminal connected with the AC line L and the null lime N, The output terminal connect a according to the product label, notice the positive and negative pole.

**1:please pay attention to the distinction between input and out put , connect correctly, then power on

**2:please connect first the load of the DC output, open the driver after checking; in the constant current mode, if power on at open circuit, please turn off the driver and can't connect the LED until the electric energy stored by the output release, or it may damage the LED ;

**3.this type of driver is only limited to the use of the LED lamps ,the input voltage range is AC200-250V,the heat insulation cotton and other items that obstruct the heat dissipation of the product, which conforms to the product under the specified output voltage, current range, the use environment temperature is -20-45 degrees, and the surface can not cover the conditions of the environment, this product enjoys 5 years of free warranty.

1.the LED lamp doesn't bright after the dimming driver is connected at the first time, please turn off the AC input and check as follow:

1)whether or not DC output bad contact;

2)whether DC output polarity is reversed, or the LED board is welded anti;

3)whether AC input is bad contact, test after eliminating these failures;

2.the device has good connection, LED lights, but the LED flicker, please turn off the AC input and check as follow:

1).whether or not the parameters and actual parameters match.

2).please timely communicate with us if you have any questions in the using, we will try our best to solve the problems with you.

The abnormal conditions and the corresponding treatment methods:

Digital Addressable lighting Interface (DALI)

DALI slave unit will send data only master unit requests, that is, adopt command answering mode

There are 64 slave units at most in the same DALI network, each unit has a separate address(short address), A salve unit can also be assigned to a certain group, and a slave unit can belong to different group, salve unit can exist up to 16 groups at the same time, each unit can set 16 scenarios.

The main features of the DALI protocol

1)Asynchronous serial communication.

2)1200 baud rate, using the Manchester encoding format.

3)Two lies differential signal.

4)The high level when differential voltage is larger than 9.5V.

5)The low level when differential voltage is less than 6.5V.

6)The master unit controls communication process.

7)One DALI bus can connect with 64 slave units.

8)Each slave unit can be individually addressed.

DALI Electrical Specification

Under the idle state, from machine unit method to control the bus:

1)High Output power at ordinary time, not to interference in the hold signal.

2)Output low electricity at ordinary time, directly to the DALI bus short circuit to each other.

3)DALI bus maximum current of 250mA

4)Not a two-way communication at the same time.

5)Transmission cable up to 300 meters, or pressure drop is no more than 2v

Not covered by the warrant

1. the signal control interface shall not be connected to a voltage higher than 15V to damage the power supply
2. input and output connections are reversed, resulting in power damage
3. the power supply is damaged due to water ingress

Statement:

The pictures and specifications are for reference, subject to the real object.

If there is any change in the specifications, it will be notified separately.

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