

1...10 V & Push Dimming CC LED Driver 1-10V&按键调光恒流 LED 驱动
7637VC, 7635VC, 7634VC, 7507VC, 7520VC

Product description 产品描述

1-10V & Push dimming LED Driver 1-10V&按键调光驱动
1-10V dimmer (electronic potentiometer) 1-10V 调光器可用和电子电位器
Dimming smooth, no flicking 调光顺畅, 不频闪
Fixed output constant current LED Driver 固定输出的恒流 LED 驱动
Synchronization up to 50pcs drivers. 同步可达 50 只电源
3-40W completed power with different current. customized 功率齐全 3-40W, 不同电流可订制
Also push dimming available 按键调光也可以用
Can be either used build-in or independent with cable clamp (see accessory)
Multiple protection function. 具有多种保护功能
Meet the IEC safety regulations & EMC regulations 符合 IEC 安全标准及 EMC 标准
Push wire terminal for quick connection. 按压式端子方便连接

Function 功能:

Over temperature protection 过温保护
Over load protection 过载保护
Short-circuit protection 短路保护
No-Load protection 空载保护



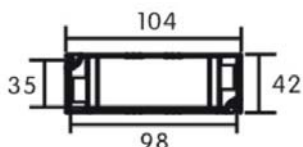
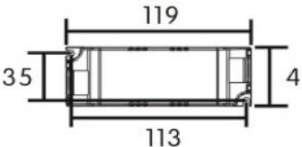
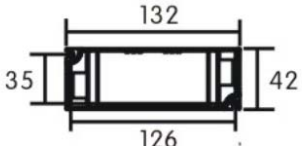
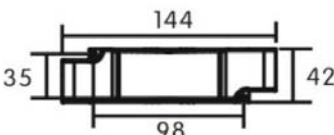
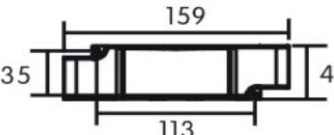
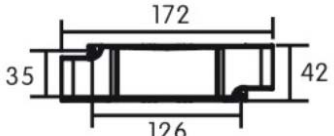



Technical data 技术参数




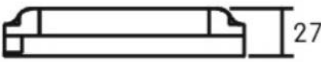
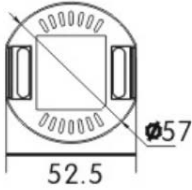
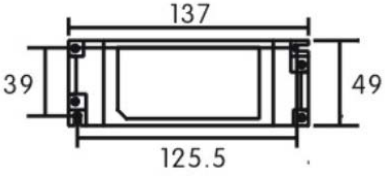
额定输入电压 Rate Input Voltage	220-240VAC
输入频率 Input Frequency	50/60Hz
谐波 THD (at 230V, 50Hz, full load)	<20%
输出电流范围 Output Current tolerance	±5%
过载保护 Over load protection	打嗝模式, 自动恢复 Hiccup mode recovers automatically
短路保护 Short circuit protection	有 Yes
过压保护 Over Voltage Protection	320V AC, 1h
过压保护 Over Voltage Protection	锁定模式 Latch mode
过温保护 Over temperature protection	<130℃
Max. output voltage (no-load voltage)	60V
最大输出电压	
Turn on time(at 230V, 50Hz, full load)	≤0.5s
满载开机时间	
Turn off time(at 230V, 50Hz, full load)	≤0.2s
满载关机时间	
寿命 Life time	>50000h
调光模式 Dimming mode	1-10V & Push Dimming 1-10V & 按键 调光

Specification 规格

Art. Nr 货号	Output Power(W) 输出功率	Output Voltage 输出电压(Vdc) 20%-100%Uo	Output Current 输出电流(mA)	效率 Efficiency	功率因素 Power Factor
7507VC	3	15/12/10/7/5	200/260/350/500/700	>80%	>0.5
	5	25/20/15/10/8	200/260/350/500/700	>80%	>0.5
	7	36/28/21/15/10	200/260/350/500/700	>80%	>0.5
7637VC	7	36/28/21/15/10	200/260/350/500/700	>80%	>0.9
	10	50/42/30/20/15	200/260/350/500/700	>80%	>0.9
	12	46/34/24/17	260/350/500/700	>80%	>0.9
7635VC	15	43/30/22	350/500/700	>80%	>0.9
	20	57/40/30/22	350/500/700/900	>80%	>0.9
	25	50/42/36/28	500/600/700/900	>80%	>0.9
7634VC	25	50/42/36/28	500/600/700/900	>85%	>0.9
	30	60/43/34	500/700/900	>85%	>0.9
	40	57/50/44	700/800/900	>85%	>0.9
7520VC	25	50/42/36/28	500/600/700/900	>85%	>0.9
	30	60/43/34	500/700/900	>85%	>0.9
	40	57/50/44	700/800/900	>85%	>0.9

Dimension 尺寸

7637VC	7635VC	7634VC
104*42*25mm	119*42*29mm	132*42*29mm
144*42*25mm (cable clamp)	159*42*29mm (cable clamp)	172*42*29mm (cable clamp)
		
		
		
		

7507VC	7520VC
D57*H23	137*49*27
	
	
	

Standards 标准

EN 55015
 EN 61000-3-2
 EN 61000-3-3
 EN 61347-1
 EN 61347-2-13
 EN 61547
 EN 62384

Instruction 使用说明

Note 注意:

1. Default setting is "1-10V" dimming. 默认状态为 1-10V 调光
2. This "1-10V" output is isolated, SELV output. 1-10V 输出是独立的，为安全低电压
3. To shift dimming from "push" to "1-10V", the end user should short-circuit "1-10V" first at least 5s.
 从 push 转为 1-10V 时，用户需要将 1-10V 短路至少 5s 来复位

PUSH-DIM 按键调光

1. On/Off control: Short push (<1s) on the PUSH Dimmer.
 On/Off 控制: 在按键上短按 (<1s)
2. Note: Short push should be at least 0.12s, and the time interval between two pushes should be longer than 0.12s also.
 注意: 短按至少 0.12s, 两次按必须大于 0.12s 的时间间隔
3. Stepless dimming: Long push (>1s).

无级调光：长按 (>1s) .

4. Built-in with permanent memory: light returns to the previous dimming level when push off and on again. 嵌入式永久记忆：当用按键关闭后重新开启时，光亮保持在关闭之前的亮度。

Synchronization 同步

Push dimmer control: 按键调光

Up to 50pcs drivers can be connected to the same Push Dimmer, pls follow the below step:

1. Long push(>1s), and then short push (<1s) ,now the drivers are off.
2. Long push, the system is now synchronized.

同一个按键最多可接 50 个驱动，如果一个以上驱动接同一个按钮，则按以下步骤完成同步功能，

- 1) 长按 (>1s)，然后短按 (<1s)，现在处于关闭状态
- 2) 长按，现在系统同步

“1-10V” dimmer control: 1-10V 调光

More than 1 driver connect with one dimmer, pls follow the below step:

1. The dimmer “1-10V” should be short-circuit at least 5s, now all driver is off.
2. Now move short-circuit, the system is now synchronized.

如果一个以上驱动接一个 1-10V 调光器，请看以下步骤完成同步功能，

1. 1-10V 端口短路至少 5s，现在驱动关闭
2. 解除短路，现在系统同步。

Both for Push and 1-10V:

When use “push” and “1-10” dimmer to control more than 1 driver at the same time, note below:

1. Synchronization operation is same as above.
2. Push is prior to “1-10V” dimmer.(example: If use “1-10V” dimming light at a status, then if you use PUSH to control, it can be dimming continue, and then use “1-10” dimming, it does not work)

当时用 “push” 和 “1-10V” 调光器控制多个驱动时，注意：

1. 以上同步操作需进行
2. “1-10V” 具有优先权，（例如：如果处于 1-10V 调光模式， 如果想用 “Push”，可以直接使用，但 “1-10V” 将不起作用了）

Overload protection 过载保护

If the output voltage range is exceeded the LED Driver reduces the LED output current. If the output voltage is exceeded by a certain degree the driver will start working in a pulsed light output mode, the light will be flicking. After elimination of the overload the nominal operation is restored automatically.

如果输出电压范围超出，电源驱动会相应减小输出电流。如果输出电压超过一定程度，该驱动将开始工作在脉冲光输出模式，表现为灯具闪烁。在消除过载后，会自动恢复。

Over temperature protection 过温保护

The LED Driver will reduce the LED output current or it works in a pulsed light output mode if the

temperature reaches a certain degree.

如果温度过高，驱动会减少输出电流，或开始工作在脉冲输出模式。

Short-circuit behavior 短路操作

In case of a short circuit on the secondary side (LED) the LED Driver switches off.

After elimination of the short-circuit fault the LED Driver will recover automatically.

如果输出端短路，驱动将会自动关闭，在消除短路后，会自动恢复。

No-load operation 开路操作

The LED Driver will work in a pulsed light output mode to limit the output voltage lower than 60 V which allows the application to be able to work safely when LED string opens due to a failure.

该驱动程序将工作在一个脉冲光输出模式，以限制输出电压低于 60 伏，这将使驱动在开路时能够保持在比较安全的模式。

Output over voltage protection 输出过压保护

The LED Driver will work in a pulsed light output mode to limit the output voltage lower than 60 V, even in fault conditions.

驱动程序将工作在一个脉冲光输出模式，以限制输出电压低于 60 伏，即使在故障条件。

Installation instructions 安装指导

The LED module and all contact points within the wiring must be sufficiently insulated against 1 kV surge voltage. Air and creepage distance must be maintained.

在布线中的 LED 模块和所有接触点必须有足够的绝缘，以防止 1 千伏浪涌电压。空气和爬电距离必须保持。

Replace LED module 更换 LED 模组

1. Mains off 主线要关闭
2. Remove LED module 断开 LED 模组
3. Wait for 10 seconds 等待 10s
4. Connect LED module again 再次接上 LED 模组

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs. 热插拔或二次开关的 LED 是不允许的，可能会导致一个非常高的电流冲击 LED 模组。

Storage conditions 储藏条件

Humidity: 5 % up to max. 85 %,

not condensed

(max. 56 days/year at 85 %)

湿度：5% ~85% 不凝结（最多 56 天/年 85%）

Storage temperature: -40 °C up to max. +80 °C

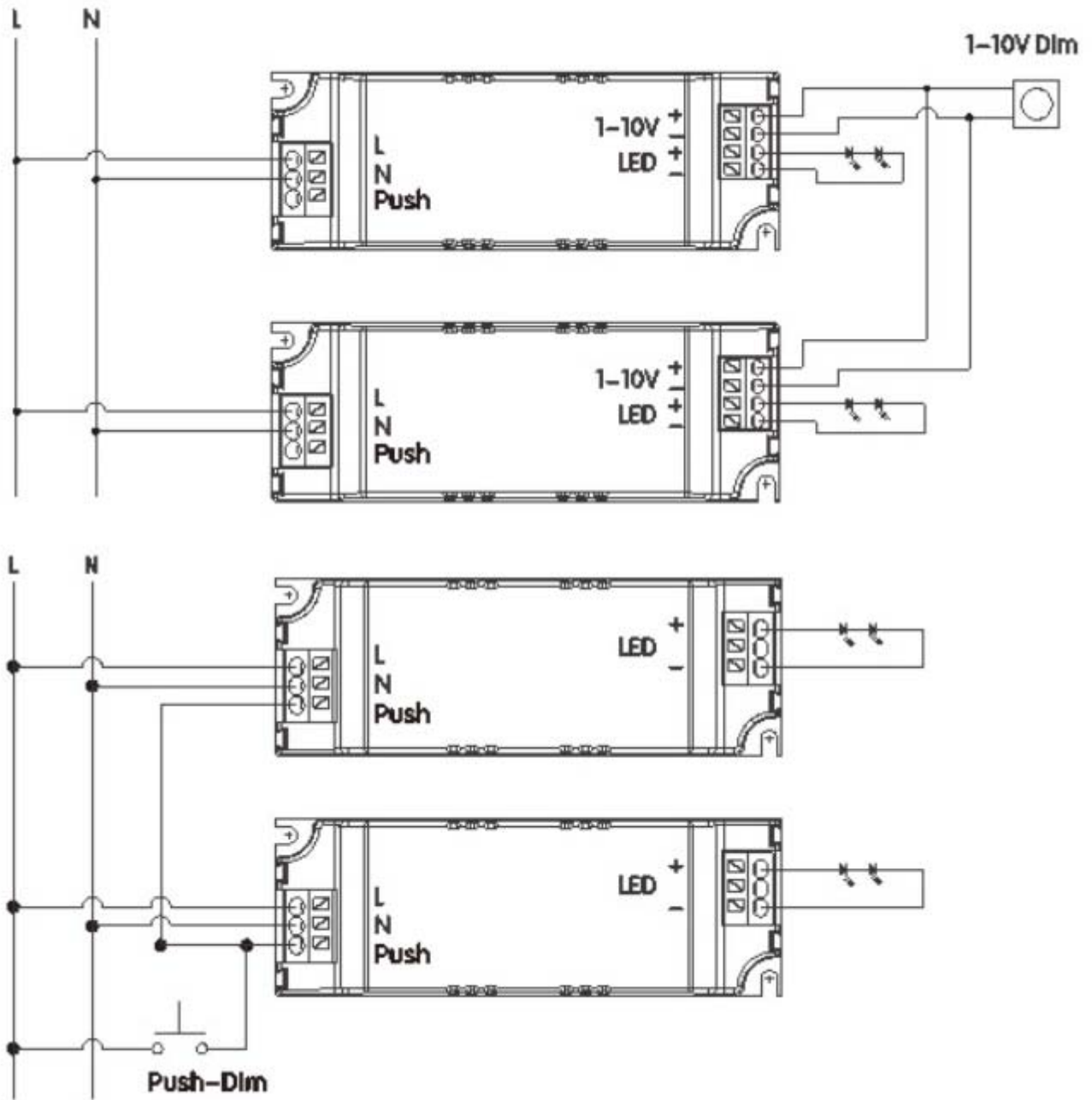
The devices have to be within the specified temperature range (ta) before they can be operated.

储藏温度：-40 °C~80°C

产品在可操作的温度范围下才可以操作

Wiring diagram 连接线路

220-240V 50/60Hz



Isolation and electric strength testing of luminaires.

隔离和灯具的电气强度测试

Electronic devices can be damaged by high voltage. This has to be considered during the routine testing of the luminaires in production.

高压可以损坏驱动，这在测试过程中要考虑

According to IEC 60598-1 Annex Q (informative only!) or ENEC 303-Annex A, each luminaire should be submitted to an isolation test with 500 V DC for 1 second. This test voltage should be connected between the interconnected phase and neutral terminals and the earth terminal.

根据 IEC 60598-1 附录 Q（信息仅供参考！）或 ENEC 303 附录 A，每个灯具应提交 500 V 直流隔离测试 1 秒。这个测试电压应该连接在关联相位的中性点和接地端子之间。

The isolation resistance must be at least 2 MΩ.

隔离电阻必须至少 2MΩ。

As an alternative, IEC 60598-1 Annex Q describes a test of the electrical strength with 1500 V AC (or 1.414 x 1500 VDC). To avoid damage to the electronic devices this test must not be conducted.

作为一种替代，IEC 60598-1 附录 Q 描述 1500VAC 电气强度测试，（或直流 1500V 1.414 X）。为避免驱动受损，此测试不进行。

Installation instructions 安装指导

Wiring type and cross section 接线类型和截面

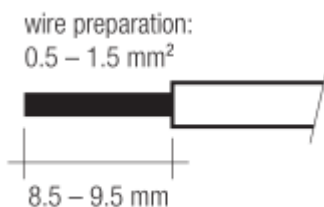
The wiring can be in stranded wires with ferrules or solid with a cross section of 0.5–1.5 mm² for mains wires and 0.2–1.5 mm² for secondary wires.

Strip 8.5–9.5 mm of insulation from the cables to ensure perfect operation of the push-wire terminals.

Use one wire for each terminal connector only

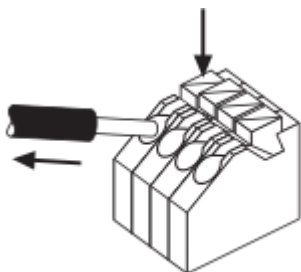
输入主线在 0.5–1.5 mm²，输出次线可以是 0.2–1.5 mm²。

绝缘电线端部外露 8.5–9.5 mm，以确保能够方便插入按压式端子中。



Release of the wiring 电线释放

Press down the “push button” and remove the cable from front. 按压端子，电线可以移出



Wiring guidelines 布线指南

- All connections must be kept as short as possible to ensure good EMI behavior. 所有连接尽量短，以确保良好的 EMI.

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- Mains leads should be kept apart from LED Driver and other leads 电源线应远离驱动和其他电线 (ideally 5 – 10 cm distance) 理想距离为 5-10cm
- Max. Length of output wires is 2 m. 输出电线最大长度 2m
- Secondary switching is not permitted. 输出端不允许接开关
- Incorrect wiring can damage LED modules. 错误的接线有可能损坏 LED 模组
- The wiring must be protected against short circuits to earth 必须对线路进行保护，防止短路到接地 (Sharp edged metal parts, metal cable clips, louver, etc.). 远离锋利的金属零件，金属电缆夹，百叶窗，等)。