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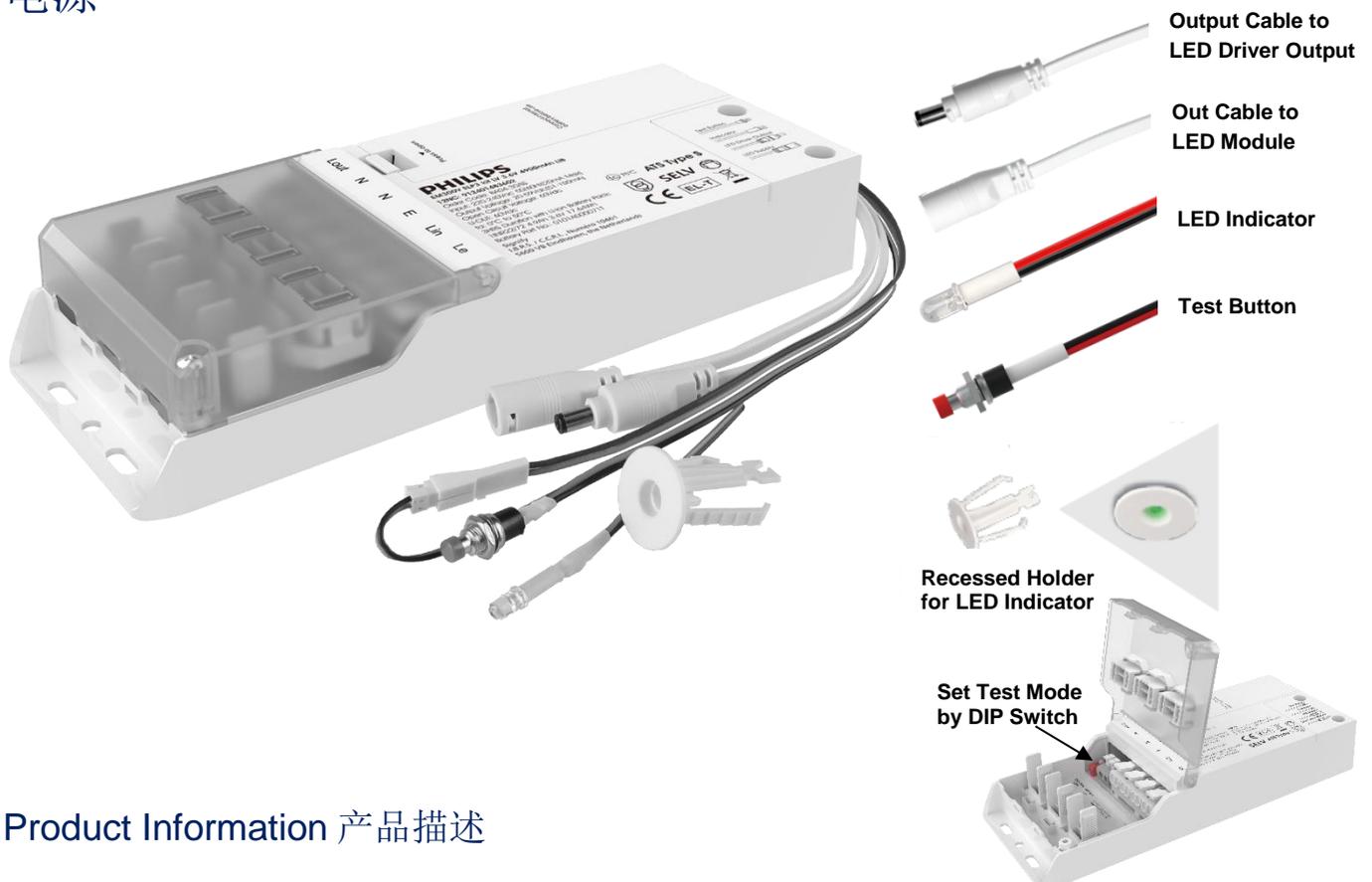
Standard and Self-Test 2 in 1External Emergency Module for LED Panels and Commercial Downlight

适用于 LED 平板灯和商业筒灯的标准/自检 2 合 1 外置式应急电源

Output Cable to LED Driver Output

Out Cable to LED Module

LED Indicator

Test Button

Recessed Holder for LED Indicator

Set Test Mode by DIP Switch

Product Information 产品描述

The Emergency Module (EM) is suitable for class III luminaires with integrated LEDs and separate LED drivers. The EM has a replaceable internal battery and can be installed within a luminaire or within the ceiling void to provide a back-up supply in the event of a power cut. The EM requires a permanent live un-switched supply to maintain the battery charge. In the event of a power cut the battery within the EM will supply the luminaire at a reduced output.

Automatic Self-Test technology that will perform regular automatic function and duration tests as required by EN 62034, reporting the results via a bi-coloured LED indicator.

此应急电源适用于配有独立电源、集成 LED 模组的 III 类灯具。具有内置的可更换的电池，可装在灯具内或直接放在天花板内，停电时作为备用电源给灯供电。需要一直通电持续为电池充电。在停电的情况下，其内置的电池将以较低的功率给灯具中 LED 模组供电。
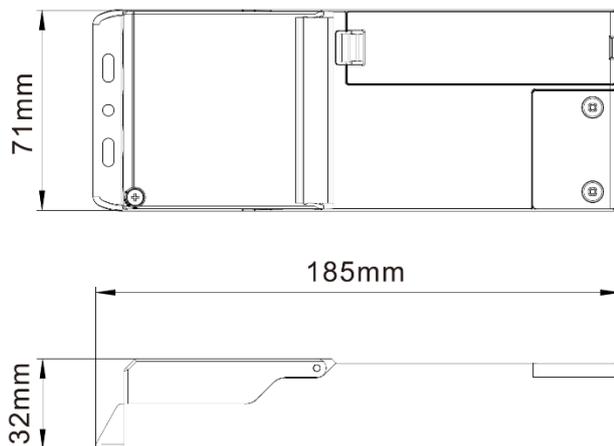
自检功能指按照 EN62034 的要求执行定期的自动功能和持续时间测试，并通过双色 LED 指示灯报告结果。
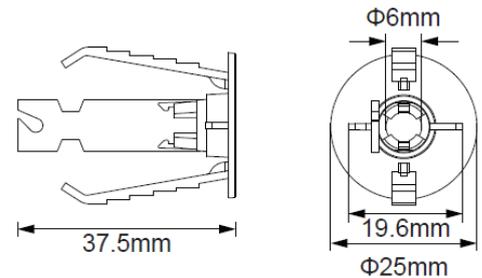
CYANTRONIC 印锐

Features 产品特色

- To set standard or self-test mode via the internal DIP switch
- To set the duration test interval (26/52 weeks) via pressing the test button twice
- For luminaires with class III LED modules and separate LED drivers
- For maintained or non-maintained emergency lighting systems
- Automatic self-test technology conforming to EN 62034
- Conforms to EN 61347-1 and EN 61347-2-7
- Wired between driver and LED module via wiring leads with connector
- Suitable for use in luminaires for high-risk task area lighting
- Voltage change-over threshold according to EN 60598-2-22
- 3 hours rated duration
- Replaceable internal Li-ion battery pack
- Over-charge, over-current, short-circuit and deep discharge protection for battery
- Bi-coloured status LED Indicator
- Weekly function test and yearly/semi-yearly duration test for self-test mode
- For independent
- Battery charging temperature control

- 通过内部拨码开关设置标准或自检模式
- 双击测试按钮设置持续时间检测周期(26周/52周)
- 适用于由独立电源控制集成LED模组的III类灯具
- 用于持续式或非持续式应急照明灯具
- 自检功能符合标准EN 62034
- 符合EN61347-1, EN61347-2-7
- 通过带端子电线与电源及LED模组接线
- 适用于高风险任务区照明灯具
- 应急转换符合标准EN 60598-2-22
- 3小时应急工作时间
- 内置的且方便更换的锂电池组
- 具有过充、过流、短路、电池深度放电保护功能
- 双色状态指示灯
- 自检模式下每周功能检测,每年/每半年持续时间检测
- 外置式应用
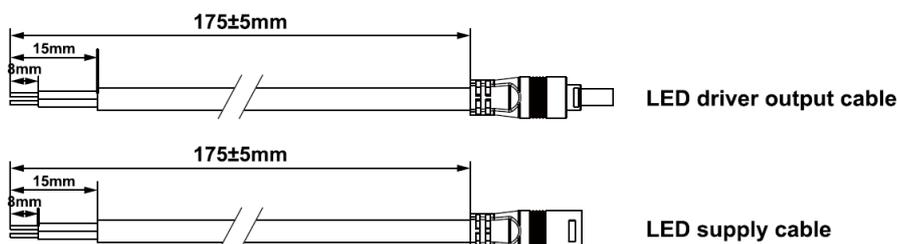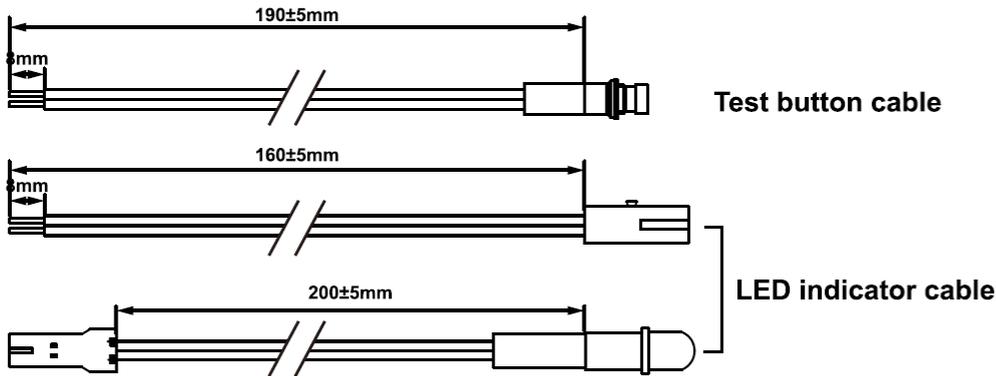- 电池充电温度控制

Dimensions 产品尺寸

Emergency Module 应急电源

71mm

185mm

32mm

Indicator Holder 指示灯固定座

37.5mm

Φ6mm

19.6mm

Φ25mm

Output Cabel 输出电线

175±5mm

15mm

8mm

LED driver output cable

175±5mm

15mm

8mm

LED supply cable

LED Indicator&Test Button Cable 指示灯&测试按钮电线

Test button cable

LED indicator cable

Specifications 产品参数

Cyantronic Code 卬锐产品型号	**BA04-30/SS**
Signify 12NC Code 昕诺飞产品型号	**912401483602**
Input Parameters 输入参数	
Rated Input Voltage Range 额定工作电压范围	**220-240Vac**
Operation Input Voltage Range 输入电压范围	**198-264Vac**
Input frequency 工作频率	**50/60Hz**
Input Wattage (max) 输入功率（最大值）	**3.5W @Rated Input Voltage & Battery full discharge** **3.5W @额定工作电压输入及电池完全放电后**
Input Current (max) 输入电流（最大值）	**20mA @Rated Input Voltage & Battery full discharge** **20mA @额定工作电压输入及电池完全放电后**
Input PF 功率因数	**PF:0.7 @Rated Input Voltage & Battery full discharge** **PF:0.7 @额定工作电压输入及电池完全放电后**
Overvoltage Protection 过压保护	**No**
Input Connection 输入端连接方式	**Push-fit terminals 0.5-1.5mm²** **按压快接端子 0.5-1.5mm²**
Output Parameters 输出参数	
Regulation Method 恒定方式	**Constant Wattage** **恒功率**
Battery Output Wattage(max) 电池输出功率(最大值)	**4W Max**
Rated Output Wattage 额定输出功率	**3W Max**
Rated Output Voltage Range 额定输出电压范围	**20-59Vdc**

Rated Output Current Range 额定输出电流范围	51-150mA
Max. Open Circuit Voltage 最大开路电压	60Vdc
U-OUT	60Vdc
Short-circuit Protection 短路保护	Yes (For battery)
Open Circuit Protection 开路保护	Yes
Output Connection 输出端连接方式	Wiring leads with connector 带端子的电线
Output Hot Plug-in 输出热拔插	When the driver is powered on and the battery is connected, reconnecting the LED luminaire is not allowed. 通电状态下，不允许重新插拔负载

Safety
安全

Input to Output Protection 输入到输出防护等级	Double Insulation 双重绝缘
Battery to Output Protection 电池到输出防护等级	Basic Insulation 基本绝缘
Mains Surge Capability 雷击	L-N:1KV
IP Protection IP 等级	IP20, Independent Driver IP20，独立式电源

Emergency Information
应急信息

Mains Voltage Changeover Threshold 应急转换电压范围	144-187Vac
Emergency Operation Time 应急工作时间	3h
Emergency Conversion Time 应急转换时间	<1s
Test Function 检测方式	Automatic Self-Test / Manual test 自测试/手动测试

Environment & Life time
环境&寿命

Operating Temperature Range 工作环境温度	Ta:0 to 45°C
Maximum Case Temperature 外壳最高温度	Tc:75°C
Operating Humidity 工作环境湿度	<75% RH (Not Condensing)
Operating Altitude 工作海拔高度	≤3000m
Driver Storage temp./humidity 驱动储存温度/湿度	-20-50℃(≤75% RH)
Driver Guarantee 驱动保修期	5 Years 5 年

Certifications and Standards
认证和标准

Certifications 认证	**ENEC, CB, CE, SAA**
Safety 安全	**EN 61347-1, EN 61347-2-7**
EMC	**EN55015, EN61000-3-2, EN61000-3-3, EN61547**
RoHS	**Directive 2011/65/EU with amendment (EU) 2015/863**
Reach	**No.1907/ 2006(EC) SVCH 240**

Battery Pack
电池组

Battery Model 电池型号	**1INR22/72 4.9Ah 3.6V**
Cell Type 电芯规格	**Li-ion 21700 3.6V 4900mAh**
Number of cells 电芯数量	**1**
Rated Battery Capacity 标称电池容量	**4900mAh**
Rated Battery Voltage 标称电池电压	**3.6V**
Battery Charge Voltage 电池充电电压	**4.2±0.1V**
Battery Charge Current 电池充电电流	**Max.380mA**
Battery Discharge Voltage 电池放电电压	**3.0-4.2V**
Battery Discharge Current 电池放电电流	**800-1200mA**
Charging Time 充电时间	**24h**
Charge Temperature Range Tcmin-Tcmax 充电温度范围	**0 to 45°C**
Battery Design Life 电池设计寿命	**5 Years at 40℃**
Max. storage time 最长储存时间	**12 months at +5 °C to +25 °C**

Customizable Accessories 可定制配件

Type 类型	Description 描述
LED Indicator LED 指示灯	2-pole wiring leads with Bi-coloured status LED indicator 2芯电线，含双色状态指示灯
Test Button 测试按钮	2-pole wiring leads with test button 2 芯电线，含测试按钮
Output Cable to LED Module 输出线	2-pole wiring leads with connector for connecting to LED module 2 芯电线，含与 LED 模组连接的端子
Output Cable to LED Driver Output 输出线	2-pole wiring leads with connector for connecting to LED driver output 2 芯电线，含与 LED 电源输出端连接的端子

Wiring Diagram接线图

Driver output current ≤ 2A 驱动输出电流≤2A