产品规格书
Datasheet

产品名称 Product	**α Pro B**
产品型号 Specification	**APRB03-30/ST**
客户编码 Client number	
编制 Edited by	
审核 Checked by	
版本 Version	**V1.2**
发行日期 Date	**2025/2/24**
客户确认 Customer confirmation	

α Pro B

Self-Test Emergency Module for LED Linear Luminaires

适用于 LED 线条型灯具的自检版应急电源

Patented

LED Indicator Cable

Holder for LED Indicator

Product Information 产品描述

This emergency module can be used built-in for the LED linear luminaires with integrated LEDs. It is designed for installing within the fitting to provide a battery back-up supply in the event of a power cut. The emergency module requires a permanent live un-switched supply to maintain the battery charge. In the event of a power cut the battery 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 LED 灯具，可安装于灯具内部。应急电源需要持续通电以维持电池电量。在停电的情况下，电池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。

Features 产品特色

- To set the standard or self-test mode to triple-pressing the test button
- To set the duration test interval (26/52 weeks) via double-pressing the test button
- 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 LiFePO4 battery pack
- Over-charge, over-current, short-circuit and deep discharge protection for battery
- Bi-coloured status LED indicator
- Weekly function test and yearly duration test for self-test mode
- For built-in
- Battery charging temperature control

- 三击测试按钮设置标准/自测试模式
- 双击测试按钮设置持续时间检测周期 (26周/52周)
- 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的灯具
- 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磷酸铁锂电池组
- 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年度持续时间检测
- 内置式应用
- 电池充电温度控制

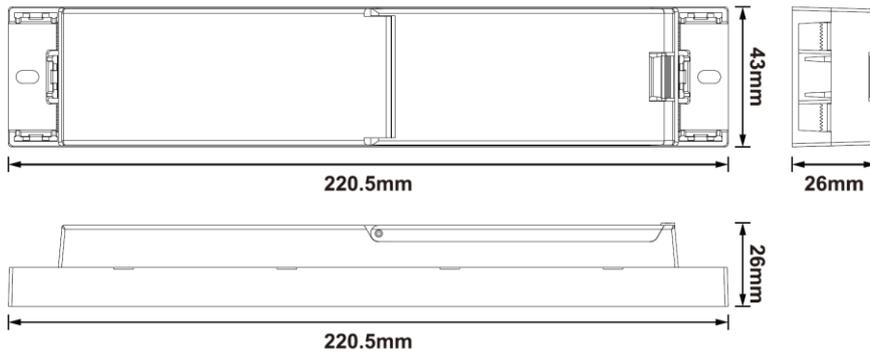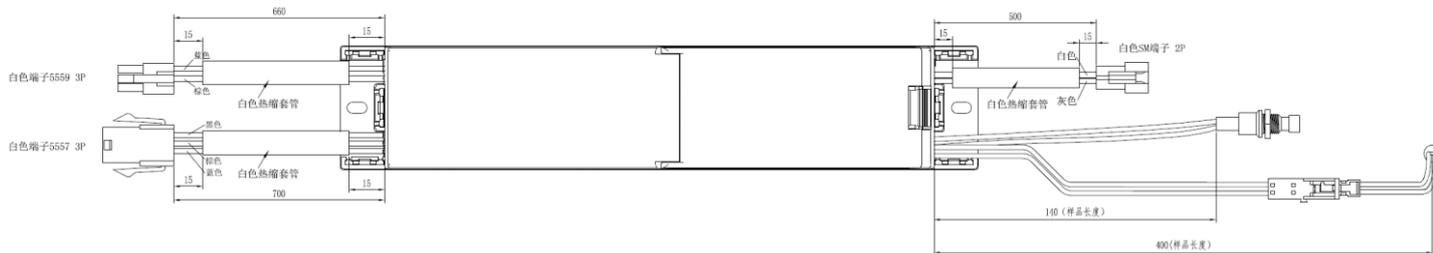# Product Label 产品标签

Emergency Module 应急模块
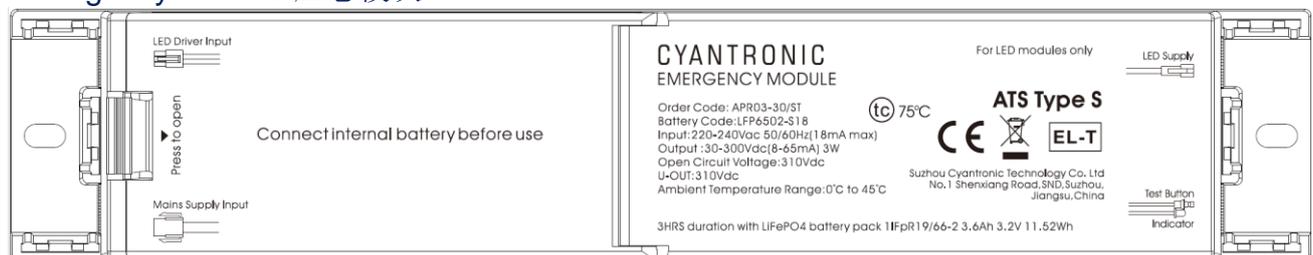
Battery Pack 电池组

Dimensions 产品尺寸

Emergency Module 应急模块

220.5mm | 43mm | 26mm | 26mm | 220.5mm

Input and Output Cabel 输入输出电线

Indicator Holder 指示灯固定座

13mm | 16mm | 19.5mm | Φ5mm

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Specifications 产品参数
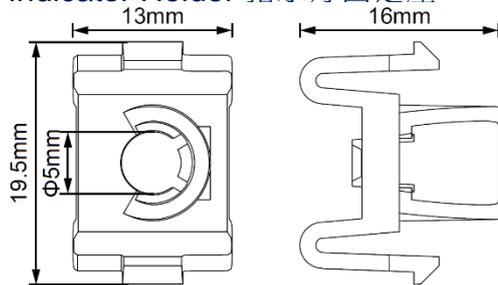
Product Code 产品型号	APRB03-30/ST
Product Description 产品描述	α Pro B,3W, 3hours emergency operation time, Self-Test α Pro B,3W,3 小时应急工作时间, 自检版
Input Parameters 输入参数	
Rated Input Voltage Range 额定工作电压范围	220-240Vac
Operation Input Voltage Range 输入电压范围	198-264Vac
Input frequency 工作频率	50/60Hz
Input Wattage (max) 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）	18mA @Rated Input Voltage & Battery full discharge 18mA @额定工作电压输入及电池完全放电后
Input PF 功率因数	PF:0.75 @Rated Input Voltage & Battery full discharge PF:0.75 @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	Wiring leads with connector 带端子电线
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)	3W Max
Rated Output Wattage 额定输出功率	2.5W Max
Rated Output Voltage Range 额定输出电压范围	30-300Vdc
Rated Output Current Range 额定输出电流范围	8-80mA
Max. Open Circuit Voltage 最大开路电压	310Vdc
U-OUT	310Vdc
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 50°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**

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Patent 专利	
EP3229557B1	**EMERGENCY LIGHTING**
CN109640479B	一种兼恒功率输出的应急驱动的照明装置
CN116518345A	灯具功能模组安装搭扣组件、具有其的灯具及组装方法

Battery Pack 电池组	
Battery Model 电池型号	**2IFpR19/66 2.0Ah 6.4V**
Cell Type 电芯规格	**LiFePO4 18650 3.2V 2000mAh**
Number of cells 电芯数量	**2**
Rated Battery Capacity 标称电池容量	**2000mAh**
Rated Battery Voltage 标称电池电压	**6.4V**
Battery Charge Voltage 电池充电电压	**7.3±0.1V**
Battery Charge Current 电池充电电流	**Max.150mA**
Battery Discharge Voltage 电池放电电压	**5.0-7.2V**
Battery Discharge Current 电池放电电流	**450-480mA**
Charging Time 充电时间	**24h**
Charge Temperature Range Tcmin-Tcmax 充电温度范围	**0 to 65°C**
Battery Design Life 电池设计寿命	**5 Years at 50℃**
Max. storage time 最长储存时间	**12 months at +5 °C to +25 °C**

Wiring Diagram接线图

Driver output current ≤ 2A 驱动输出电流≤2A