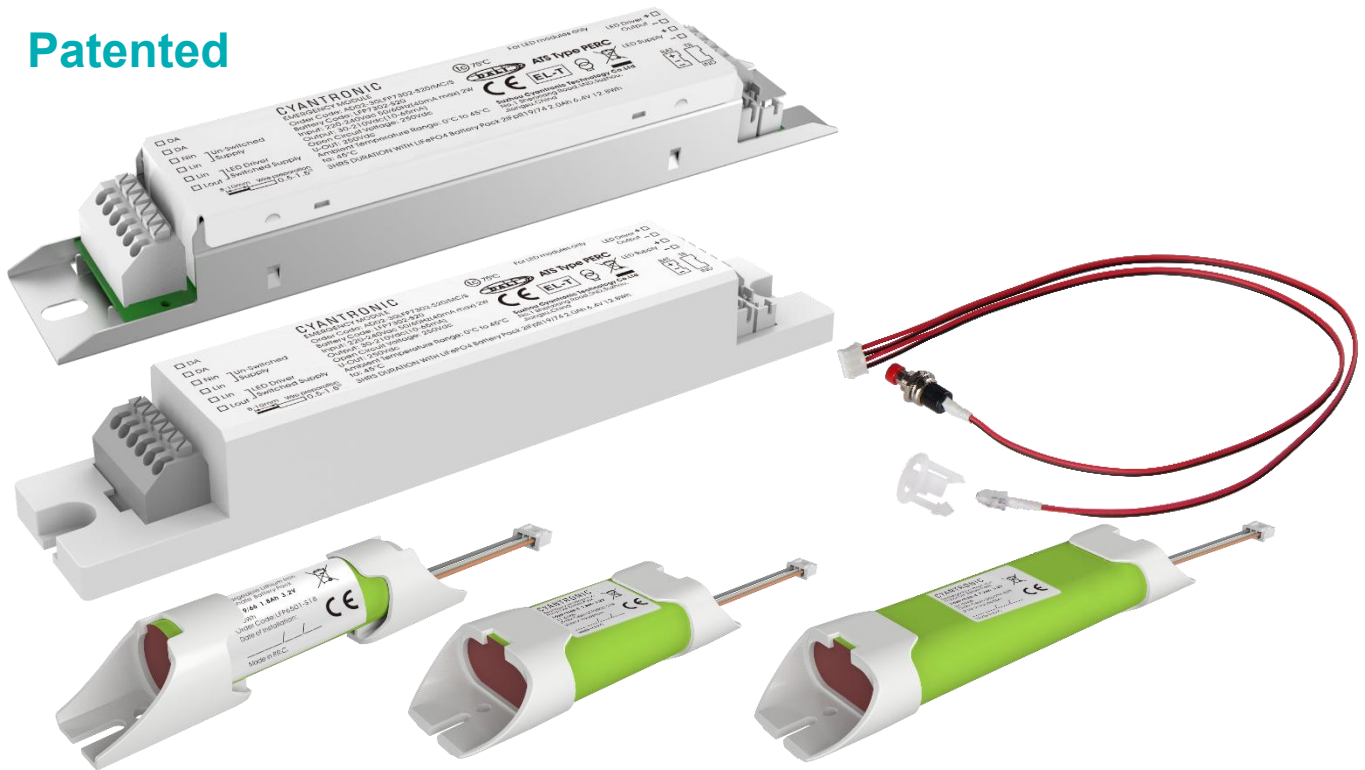


α-i

Internal Emergency Module with DALI interface and automatic test function for LED Linear Luminaires with Isolated Driver

适用于隔离电源的 LED 线条形灯具的带 DALI 接口和自检功能内置式应急电源

Patented



Product Information 产品描述

The Emergency Module with DALI interface and automatic test function is suitable for the luminaires with integrated LEDs and separate LED drivers. 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 luminaires at a reduced output.

A DALI command from a suitable control unit can be used to initiate function and duration tests at individually selected times. Status flags are set for report back and data logging of results.

此具有 DALI 接口和自检功能的应急电源适用于由单独电源供电 LED 模组的灯具。并安装于灯具内部。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。

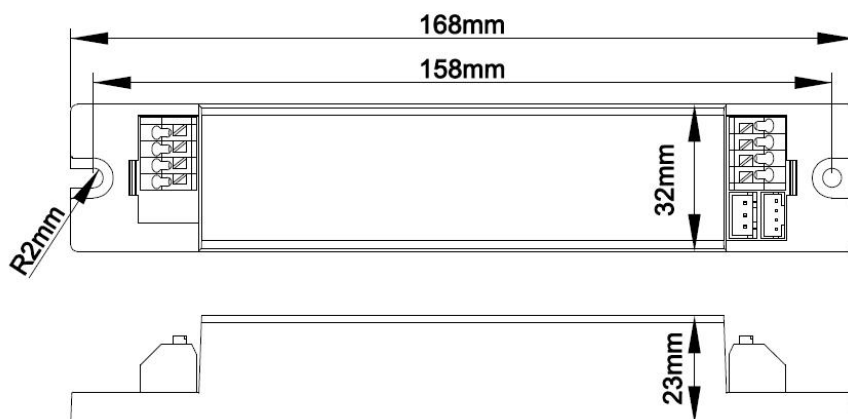
由控制装置发出的 DALI 指令可用于在选定的时间启动功能和持续时间测试。设置状态标志用于报告反馈和结果记录。

- For LED modules with a forward voltage of 20-55Vdc
- For maintained or non-maintained emergency lighting systems
- Automatic Self-Test technology conforming to EN 62034
- DALI conforming to EN 62386-101, EN 62386-102, EN 62386-202
- Conforms to EN 61347-1 and EN 61347-2-7
- Wired between LED driver and LED module via terminals
- Suitable for use in luminaires for high-risk task area lighting
- Voltage change-over threshold according to EN 60598-2-22
- 1.5 hours or 3 hours rated duration
- 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
- Constant power output
- For built-in
- Battery charging temperature control
- 适用于电压为20-55Vdc的LED模组
- 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
- DALI符合标准EN 62386-101, EN 62386-102, EN 62386-202
- 符合标准EN 61347-1, EN 61347-2-7
- 通过端子与电源及LED模组连线
- 适用于高风险任务区照明灯具
- 应急转换符合标准EN60598-2-22
- 1.5小时或3小时应急工作时间
- 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
- 每周功能检测年度持续时间检测
- 恒功率输出
- 内置式应用
- 电池充电温度控制

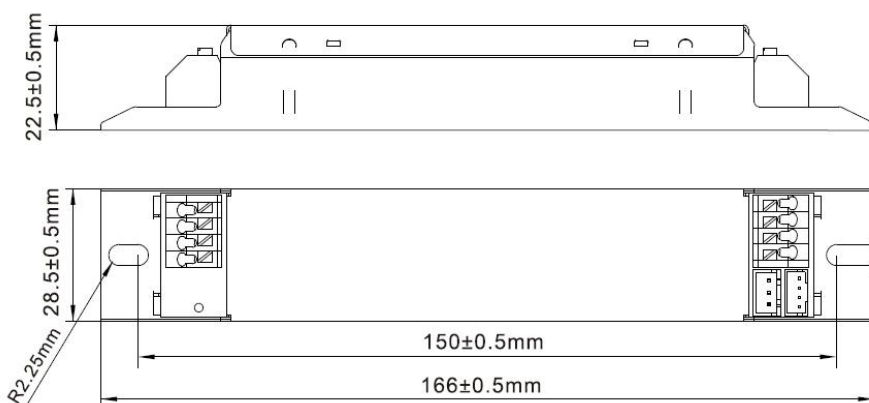
Dimensions 产品尺寸

Emergency Module 应急电源

Plastic 塑壳

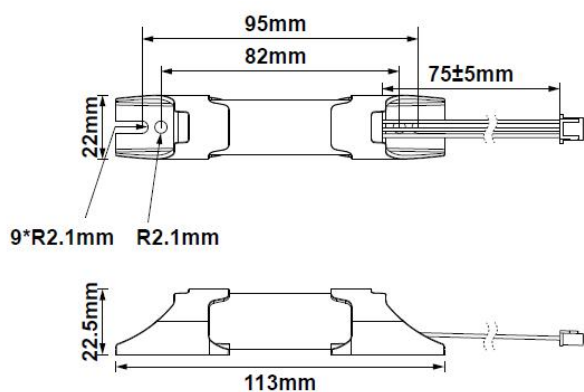


Metal 铁壳

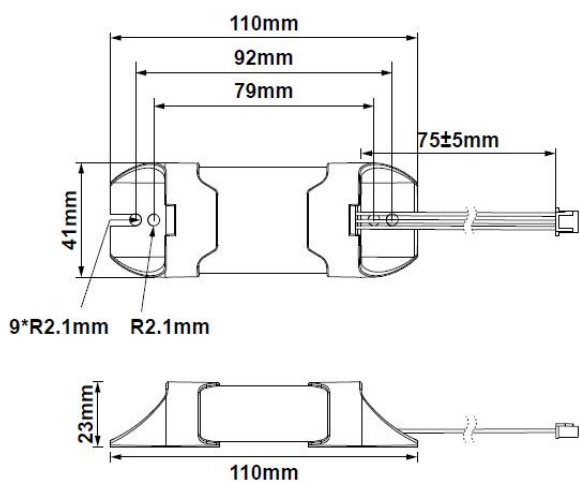


Battery Pack 电池

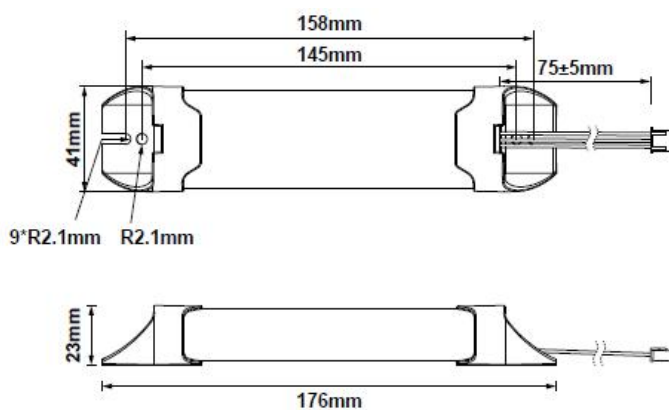
1IFpR19/66 1.8Ah 3.2V



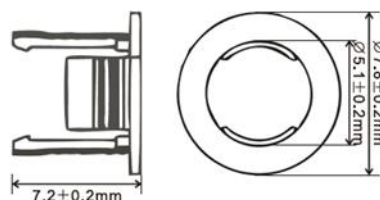
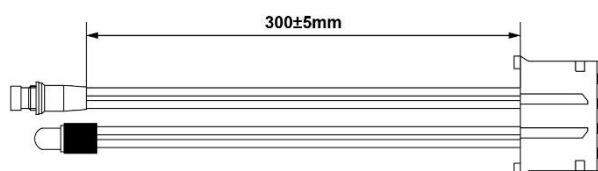
2IFpR19/66 2.0Ah 6.4V



2IFpR19/66-2 4.0Ah 6.4V



Indicator&Test Button Cable 指示灯&测试按钮线 Indicator Holder 指示灯固定座



Product Code 产品型号	AI03-30/DA	AI03-15/DA	AI05-30/DA	AI05-15/DA
	AI03-30/MC/DA	AI03-15/MC/DA	AI05-30/MC/DA	AI05-15/MC/DA
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		4W @Rated Input Voltage & Battery full discharge 4W @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）	19mA @Rated Input Voltage & Battery full discharge 19mA @额定工作电压输入及电池完全放电后		21mA @Rated Input Voltage & Battery full discharge 21mA @额定工作电压输入及电池完全放电后	
Input PF 功率因数	PF:0.8 @Rated Input Voltage & Battery full discharge PF:0.8 @额定工作电压输入及电池完全放电后		PF:0.8 @Rated Input Voltage & Battery full discharge PF:0.8 @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 0.5-1.5mm ² 按压快接端子 0.5-1.5mm ²			
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		5W Max	
Rated Output Wattage 额定输出功率	2.5W Max		4W Max	
Rated Output Voltage Range 额定输出电压范围	20-55Vdc			
Rated Output Current Range 额定输出电流范围	45-125mA		73-200mA	
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	Push-fit terminals 0.5-1.5mm ² 按压快接端子 0.5-1.5mm ²			
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			
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	1.5h	3h	1.5h
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°C(≤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	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547			
DALI-2	EN 62386-101, EN 62386-102, EN 62386-202			
RoHS	Directive 2011/65/EU with amendment (EU) 2015/863			

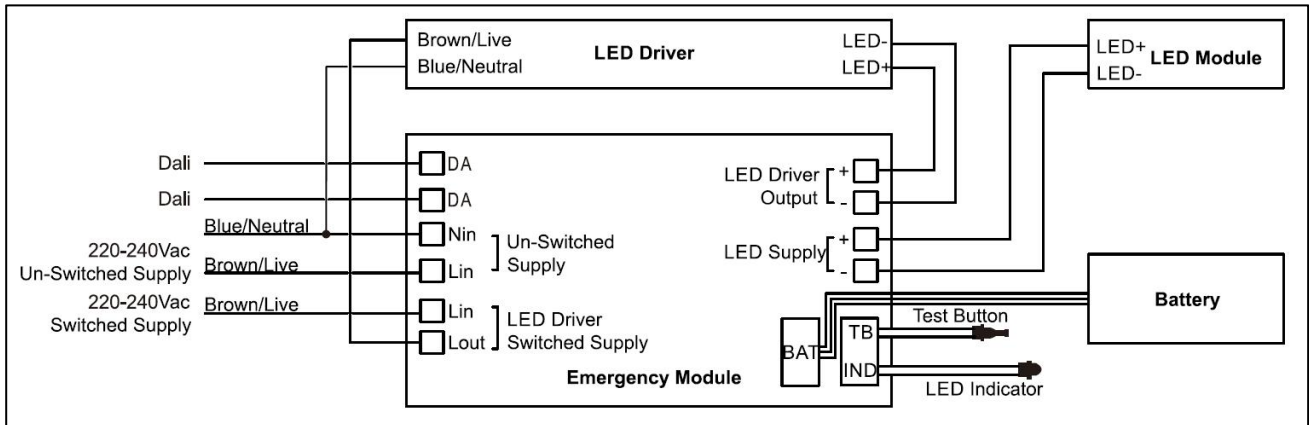
Reach	No.1907/ 2006(EC) SVCH 240		
Patent 专利			
EP3229557B1	EMERGENCY LIGHTING		
CN109640479B	一种兼恒功率输出的应急驱动的照明装置		
Battery Pack 电池组			
Battery Model 电池型号	1IFpR19/66 1.8Ah 3.2V (for 3W 1.5h)	2IFpR19/66 2.0Ah 6.4V (for 3W 3h / 5W 1.5h)	2IFpR19/66-2 4.0Ah 6.4V (for 5W 3h)
Cell Type 电芯规格	LiFePO4 18650 3.2V 1800mAh	LiFePO4 18650 3.2V 2000mAh	LiFePO4 18650 3.2V 2000mAh
Number of cells 电芯数量	1	2	4
Rated Battery Capacity 标称电池容量	1800mAh	2000mAh	4000mAh
Rated Battery Voltage 标称电池电压	3.2V	6.4V	6.4V
Battery Charge Voltage 电池充电电压	3.65±0.1V	7.3±0.1V	7.3±0.1V
Battery Charge Current 电池充电电流	Max.250mA	Max.250mA	Max.280mA
Battery Discharge Voltage 电池放电电压	2.5-3.6V	5.0-7.2V	5.0-7.2V
Battery Discharge Current 电池放电电流	900-960mA	450-480mA(3W,3h) 750-870mA(5W,1.5h)	750-870mA
Charging Time 充电时间	24h	24h	24h
Charge Temperature Range Tcmin-Tcmax 充电温度范围	0 to 65°C	0 to 65°C	0 to 65°C
Battery Design Life 电池设计寿命	5 Years at 50°C	5 Years at 50°C	5 Years at 50°C
Max. storage time 最长储存时间	12 months at +5 °C to +25 °C	12 months at +5 °C to +25 °C	12 months at +5 °C to +25 °C

Customizable Accessories 可定制配件

Type 类型	Description 描述
LED indicator & Test button cable 指示灯及测试按钮线	Green status LED indicator and test button cable with 4-pole plug 带4位连接器的绿色状态指示灯和测试按钮电线
Extension cable for battery 电池组延长线	Extension cable for battery with 3-pole plug, available in 75mm or 130mm 带3位连接器的电池延长线, 有75mm 或 130mm 2种选择

Wiring Diagram 接线图

Driver output current $\leq 2A$ 驱动输出电流 $\leq 2A$



Drive output current $> 2A$ 驱动输出电流 $> 2A$

