

产品规格书

Datasheet

产品名称
Product

α-i

产品型号
Specification

AI02-30LFP7302-S20/MC

客户编码
Client number

1.10.13.0100-1

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审核
Checked by

版本
Version

V1.0

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Date

2023/10/17

客户确认
Customer confirmation

α-i

Emergency Module for LED Luminaires with Isolated Driver

适用于含隔离电源的 LED 灯具的应急电源



Product Information 产品描述

This emergency module is used inside LED luminaires with integrated LEDs and separate isolated LED driver. 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.

此应急电源适用于由隔离电源驱动的 LED 灯具，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。

Features 产品特色

- For LED modules with a forward voltage of 24-54Vdc
- For maintained or non-maintained emergency lighting systems
- Conforms to EN 61347-1 and EN 61347-2-7 and EN 61347-2-13
- Wired between driver and LED module via internal terminals
- 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
- LiFePO4 battery pack
- Over-charge, over-current, short-circuit and deep discharge protection for battery
- Test Button for a quick functional test
- Green charging status LED
- For building-in
- 适用于电压为24-54Vdc的LED模组
- 用于持续式或非持续式应急照明灯具
- 符合EN61347-1, EN61347-2-7及EN61347-2-13
- 通过端子与电源及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
- 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
- 手动快速功能测试按钮
- 绿色充电状态指示灯
- 内置式应用

Product Label 产品标签

Emergency Module 应急模块

<input type="checkbox"/> Lin } Un-Switched Supply <input type="checkbox"/> Nin } <input type="checkbox"/> Lin } LED Driver <input type="checkbox"/> Lout } Switched Supply Wire preparation 0.5-1.5 <input type="checkbox"/> 	<p>Kosnic EMERGENCY MODULE Order Code: AI02-30LFP7302-S20/MC Battery Code: BAT20LFP2-N2 Input: 220-240Vac 50-60Hz(40mA max) Constant Output power Output: 24-54Vdc(35-80mA) 2W Open Circuit Voltage: 59Vdc U-OUT: 59Vdc Ambient Temperature Range: 0°C to 45°C ta: 45°C</p>	For LED modules only F1:1A 250VAC  SELV      F-77700 B-R RG14 5PX,UK	LED Driver Output + <input type="checkbox"/> - <input type="checkbox"/> LED Supply + <input type="checkbox"/> - <input type="checkbox"/>   IND
3HRS DURATION WITH LiFePO4 Battery Pack 2.0Ah 6.4V 12.8Wh 0°C-55°C 2IFpR18/73 0.86A			

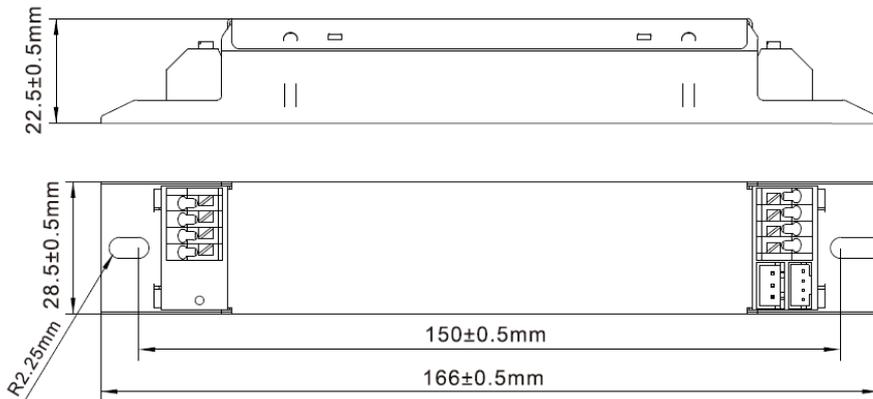
Battery Pack 电池组

Model: 2IFpR19/74 2.0Ah 6.4V
 KS.A000102 Manufacture: YYYMMDD

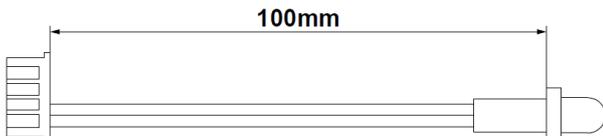
Kosnic
 Rechargeable Lithium Iron Phosphate Battery Pack
2IFpR19/74 2.0Ah 6.4V
 12.8Wh
 Order Code: BAT20LFP2-N2 F-77700 B-R
 Date of Installation: _____
 Made in P.R.C.  RG14 5PX,UK

Dimensions 产品尺寸

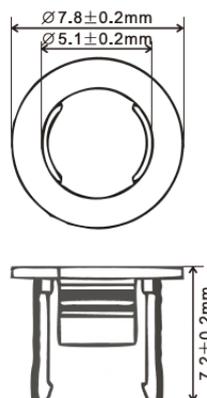
Emergency Module 应急模块



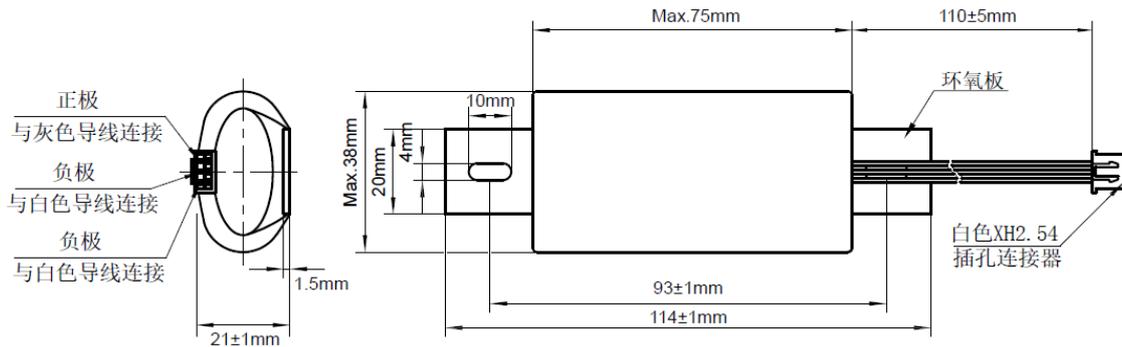
Indicator Cable 指示灯电线



Indicator Holder 指示灯固定座



Battery Pack 电池组



Specifications 产品参数

Output Wattage 输出功率	2W
Input Voltage 输入电压	220-240Vac 50/60Hz
Input Current (max) 输入电流 (最大值)	40mA
Output Voltage 输出电压	24-54Vdc
Output Current 输出电流	35-80mA
Open Circuit Voltage 开路电压	59Vdc
Maximum Working Voltage 工作电压 (最大值)	59Vdc
Protection IP 及防护等级	IP20, For built-in installation IP20, 内置安装
Input to Output Protection 输入到输出防护等级	Double Insulation 双重绝缘
Emergency Operation Time 应急工作时间	>3 h or >1.5 h
Emergency Onversion Time 应急转换时间	<1s
Test Function 检测方式	Manual 手动
Length x Width x Depth 长*宽*深	166 x 28.5 x 22.5mm
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 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
Maximum Case Temperature 外壳最高温度(°C)	75°C
Ambient Temperature Range 工作环境温度(°C)	0 to 45°C

Notes: Not suitable for use on a battery supply with a trickle or intermittent re-charging circuit. The emergency module is not protected against supply voltage polarity reversal.

注意: 不适用于带涓流或间歇充电电路的电池供电, 应急电源无电池极性反接保护功能。

Battery Pack Options 电池组选项

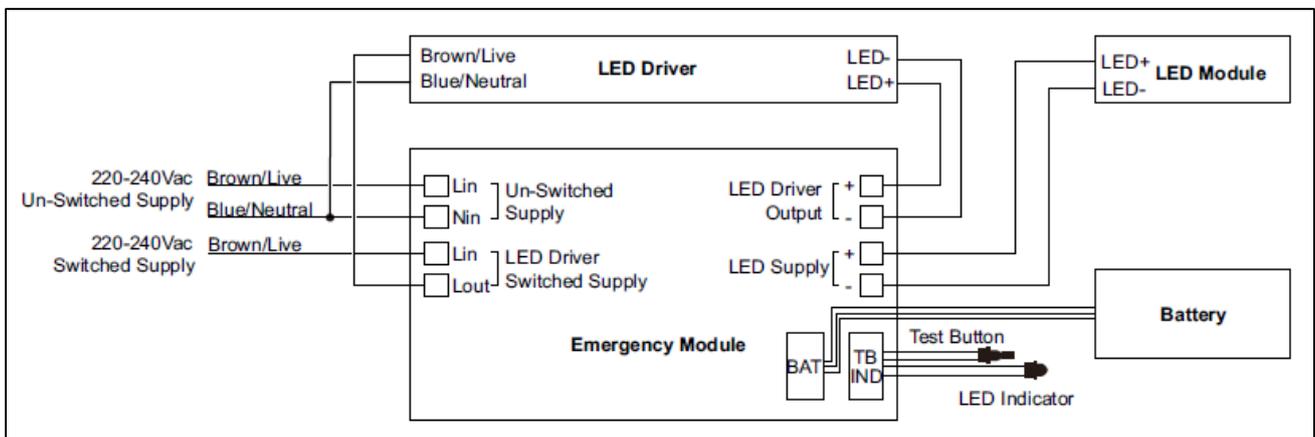
Battery Code 电池型号	LFP7302-S20
Battery Type 电池类型	LiFePO4 18730
Battery Capacity 电池容量	2000mAh
Battery Voltage 电池电压	6.4V
Battery Charge Voltage 电池充电电压	9.0Vdc
Battery Charge Current 电池充电电流	30-400mA
Battery Discharge Voltage 电池放电电压	6.0-8.2Vdc
Battery Discharge Current 电池放电电流	350-700mA
Charging Time 充电时间	>24h
Battery Life 电池寿命	2 Years

Order Codes 产品型号

Order Code 产品型号	Description 描述
AI02-30LFP7302-S20/MC	2W output wattage, 3.0hours emergency operation time, LFP7302-S20 2W 输出功率, 3 小时应急工作时间

Wiring Diagram 接线图

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



Driver output current > 2A 驱动输出电流 > 2A

