

2023 Emergency Products Catalogue

# EMERGENCY PRODUCTS

2023应急产品目录



## 2023 Emergency Products Catalogue

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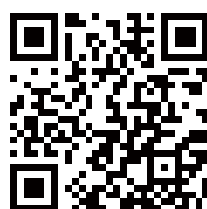
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# About AcTEC

## 公司简介



Xiang'an Xiamen Factory  
厦门翔安工厂



Fuzhou Factory  
福州工厂



Tongan Xiamen Factory  
厦门同安工厂

AcTEC products cover industrial power supply, lighting power supply, lighting control, emergency lighting, motion sensor, electrical switches and dimmers. Its smart control products are widely used in domestic, commercial, and industrial areas. AcTEC is a leading company in providing smart wired control products for KNX and DALI and wireless control products for Z-wave, Zigbee, Wi-Fi, BLE, IoT, and smart home solutions. AcTEC is providing hundreds of global customers with highly reliable electronic products for lighting.

AcTEC is a state-level high-tech enterprise with production area of 110,000 square meters and its own R&D, production, and sales teams. AcTEC has established four R&D centers and two production bases in Xiamen, Fuzhou and Shenzhen, with strong R&D teams and professional automated production lines. AcTEC's in-house test laboratory is accredited by CNAS National Laboratory, CTF Lab of TUV Rhein and TUV Sud, and TMP Lab of Nemko. AcTEC carries out the ISO9001-2015 quality certification system and ISO14001 environmental management system. Quality assurance measures are also implemented with reference to 6 SIGEMA, FMEA and other international advanced management concepts to ensure product quality.

We are committed to become a most trustable ODM, OEM and joint development services provider for smart power supply, smart controllers, and smart lighting products to the global market.

亚铨产品涵盖工业电源、照明电源、照明电器控制、应急照明、移动感应、电工开关调光器等智能控制产品，广泛运用于家庭、商业、工业等领域，是国内领先的KNX和DALI协议有线控制和Z-wave、Zigbee、Wi-Fi、BLE无线IoT（物联网）设备和智能家居解决方案提供商，销售遍及全球几十个国家。

亚铨是国家级高新技术企业，生产面积约110,000平米，集研发、生产和销售于一身，在福州、厦门、深圳建立四个研发中心，两个生产基地，拥有强大的研发团队和专业的自动化生产线。公司的实验中心获得CNAS国家实验室认可，TUV莱茵的CTF实验室认可，TUV莱茵、TUV南德和NEMKO的TMP目击实验室认可。同时通过ISO9001质量管理体系、ISO14001环境管理体系，推广6SIGEMA、FMEA等国际先进的管理理念，为产品质量提供可靠的保证。

我们提供ODM，OEM及联合开发服务，致力于成为全球智能电源、智能控制器、智能照明等产品的可信赖供应商。

# 质量认证 Quality Certification



# Emergency Light Converter

|                                                                                     | Model No.<br>型号   | Input<br>voltage<br>额定电压<br>(V) | Emergency<br>LED power<br>应急功率<br>(W) | Emergency<br>LED current<br>应急电流<br>(mA) | Emergency<br>LED voltage<br>应急电压<br>(V) | Emergency<br>time<br>应急时间<br>(h) | Charge<br>time<br>充电时间<br>(h) | Battery<br>Type<br>电池  | Dimensions<br>LxWxH<br>尺寸<br>(mm) |
|-------------------------------------------------------------------------------------|-------------------|---------------------------------|---------------------------------------|------------------------------------------|-----------------------------------------|----------------------------------|-------------------------------|------------------------|-----------------------------------|
|    | EC-LP-23          | 220-240                         | 2.3                                   | 380-42                                   | 6-54                                    | 3                                | 24                            | LiFePO4 3.2V 3.3Ah     | 173x30x21                         |
|                                                                                     | EC-LP-30          | 220-240                         | 3.0                                   | 500-55                                   | 6-54                                    | 3                                | 24                            | LiFePO4 3.2V 4.5Ah     | 173x30x21                         |
|                                                                                     | EC-LP-32          | 220-240                         | 3.2                                   | 530-60                                   | 6-54                                    | 3                                | 24                            | LiFePO4 3.2V 4.5Ah     | 173x30x21                         |
|                                                                                     | EC-LP-40          | 220-240                         | 4.0                                   | 665-75                                   | 6-54                                    | 3                                | 24                            | LiFePO4 3.2V 6.6Ah     | 173x30x21                         |
|    | EC-LP-23D         | 220-240                         | 2.3                                   | 380-42                                   | 6-54                                    | 3                                | 24                            | LiFePO4 3.2V 4.5Ah     | 173x30x21                         |
|                                                                                     | EC-LP-30D         | 220-240                         | 3.0                                   | 500-55                                   | 6-54                                    | 3                                | 24                            | LiFePO4 3.2V 6.6Ah     | 173x30x21                         |
|                                                                                     | EC-LP-32D         | 220-240                         | 3.2                                   | 530-60                                   | 6-54                                    | 3                                | 24                            | LiFePO4 3.2V 6.6Ah     | 173x30x21                         |
|                                                                                     | EC-LP-40D         | 220-240                         | 4.0                                   | 665-75                                   | 6-54                                    | 3                                | 24                            | LiFePO4 3.2V 7.6Ah     | 173x30x21                         |
|    | EC-LP-23H         | 220-240                         | 2.3                                   | 48-8                                     | 50-300                                  | 3                                | 24                            | LiFePO4 3.2V 3.3Ah     | 173x30x21                         |
|                                                                                     | EC-LP-30H         | 220-240                         | 3.0                                   | 60-10                                    | 50-300                                  | 3                                | 24                            | LiFePO4 3.2V 4.5Ah     | 173x30x21                         |
|                                                                                     | EC-LP-32H         | 220-240                         | 3.2                                   | 64-11                                    | 50-300                                  | 3                                | 24                            | LiFePO4 3.2V 4.5Ah     | 173x30x21                         |
|                                                                                     | EC-LP-40H         | 220-240                         | 4.0                                   | 80-13                                    | 50-300                                  | 3                                | 24                            | LiFePO4 3.2V 6.6Ah     | 173x30x21                         |
|    | EC-LP-23HD        | 220-240                         | 2.3                                   | 48-8                                     | 50-300                                  | 3                                | 24                            | LiFePO4 3.2V 4.5Ah     | 173x30x21                         |
|                                                                                     | EC-LP-30HD        | 220-240                         | 3.0                                   | 60-10                                    | 50-300                                  | 3                                | 24                            | LiFePO4 3.2V 6.6Ah     | 173x30x21                         |
|                                                                                     | EC-LP-32HD        | 220-240                         | 3.2                                   | 64-11                                    | 50-300                                  | 3                                | 24                            | LiFePO4 3.2V 6.6Ah     | 173x30x21                         |
|                                                                                     | EC-LP-40HD        | 220-240                         | 4.0                                   | 80-13                                    | 50-300                                  | 3                                | 24                            | LiFePO4 3.2V 7.6Ah     | 173x30x21                         |
|    | EC-LP-60D         | 110-277                         | 6.0                                   | 600-112                                  | 10-54                                   | 1.5                              | 24                            | Li-Ion 7.4V 2.5Ah      | 173x30x21                         |
|                                                                                     | EC-LP-60HD        | 110-277                         | 6.0                                   | 120-20                                   | 50-300                                  | 1.5                              | 24                            | Li-Ion 7.4V 2.5Ah      | 173x30x21                         |
|   | EM2332            | 220-240                         | 2.3                                   | 370-38                                   | 6-60                                    | 3                                | 24                            | LiFePO4 3.2V 3.3Ah     | 160x38x21                         |
|                                                                                     | EM3032            | 220-240                         | 3.0                                   | 500-50                                   | 6-60                                    | 3                                | 24                            | LiFePO4 3.2V 4.5Ah     | 160x38x21                         |
|                                                                                     | EM3832            | 220-240                         | 3.8                                   | 630-63                                   | 6-60                                    | 3                                | 24                            | LiFePO4 3.2V 6.6Ah     | 160x38x21                         |
|                                                                                     | EM4032            | 220-240                         | 4.0                                   | 665-65                                   | 6-60                                    | 3                                | 24                            | LiFePO4 3.2V 6.6Ah     | 160x38x21                         |
|  | EM2332A 4500      | 220-240                         | 2.3                                   | 370-38                                   | 6-60                                    | 3                                | 24                            | LiFePO4 3.2V 4.5Ah     | 160x38x21                         |
|                                                                                     | EM3832A 6600      | 220-240                         | 3.8                                   | 630-63                                   | 6-60                                    | 3                                | 24                            | LiFePO4 3.2V 6.6Ah     | 160x38x21                         |
|  | EM2332AI 4500     | 220-240                         | 2.3                                   | 370-38                                   | 6-60                                    | 3                                | 24                            | LiFePO4 3.2V 4.5Ah     | 200x42x28                         |
|                                                                                     | EM3832AI 6600     | 220-240                         | 3.8                                   | 630-63                                   | 6-60                                    | 3                                | 24                            | LiFePO4 3.2V 6.6Ah     | 200x42x28                         |
|  | EMC4032 3300      | 220-240                         | 0.4-4                                 | 67                                       | 6-60                                    | 3                                | 24                            | LiFePO4 3.2V 4.5Ah     | 160x38x21                         |
|  | EMLED3/60 3000    | 220-240                         | 2.4                                   | 400-40                                   | 6-60                                    | 3                                | 20                            | Ni-cd/Ni-MH 3.6V 3.0Ah | 160x38x28                         |
|                                                                                     | EMLED3/60 4500    | 220-240                         | 3.6                                   | 600-60                                   | 6-60                                    | 3                                | 24                            | Ni-cd/Ni-MH 3.6V 4.5Ah | 160x38x28                         |
|  | EMLED3/60/I 3000  | 220-240                         | 2.4                                   | 400-40                                   | 6-60                                    | 3                                | 20                            | Ni-cd/Ni-MH 3.6V 3.0Ah | 200x42x28                         |
|                                                                                     | EMLED3/60/I 4500  | 220-240                         | 3.6                                   | 600-60                                   | 6-60                                    | 3                                | 24                            | Ni-cd/Ni-MH 3.6V 4.5Ah | 200x42x28                         |
|  | EMLED3/120 3000   | 220-240                         | 2.4                                   | 40-20                                    | 60-120                                  | 3                                | 20                            | Ni-cd/Ni-MH 3.6V 3.0Ah | 160x38x28                         |
|                                                                                     | EMLED3/120 4500   | 220-240                         | 3.6                                   | 60-30                                    | 60-120                                  | 3                                | 24                            | Ni-cd/Ni-MH 3.6V 4.5Ah | 160x38x28                         |
|  | EMLED3/120/I 3000 | 220-240                         | 2.4                                   | 40-20                                    | 60-120                                  | 3                                | 20                            | Ni-cd/Ni-MH 3.6V 3.0Ah | 200x42x28                         |
|                                                                                     | EMLED3/120/I 4500 | 220-240                         | 3.6                                   | 60-30                                    | 60-120                                  | 3                                | 24                            | Ni-cd/Ni-MH 3.6V 4.5Ah | 200x42x28                         |

## Emergency Light Inverter

|                                                                                   | Model No.<br>型号 | Input<br>voltage<br>额定电压<br>(V) | Emergency<br>LED power<br>应急功率<br>(W) | Emergency<br>LED current<br>应急电流<br>(mA) | Emergency<br>LED voltage<br>应急电压<br>(V) | Emergency<br>time<br>应急时间<br>(h) | Charge<br>time<br>充电时间<br>(h) | Battery<br>Type<br>电池 | Dimensions<br>LxWxH<br>尺寸<br>(mm) |
|-----------------------------------------------------------------------------------|-----------------|---------------------------------|---------------------------------------|------------------------------------------|-----------------------------------------|----------------------------------|-------------------------------|-----------------------|-----------------------------------|
|  | EC-LP-300D      | 220-240                         | 2-30                                  | 0-130                                    | 220                                     | 1.5                              | 10                            | Li-ion 22.2V 2.5Ah    | 280x35x23                         |
|  | EC-LP-100 220   | 220-240                         | 3-10                                  | 0-45                                     | DC220V                                  | 3                                | 24                            | LiFePO4 12.8V 3.3Ah   | 173x30x21                         |

## Emergency Light LED Driver

|                                                                                   | Model No.<br>型号 | Input<br>voltage<br>额定电压<br>(V) | Emergency<br>LED power<br>应急功率<br>(W) | Emergency<br>LED current<br>应急电流<br>(mA) | Emergency<br>LED voltage<br>应急电压<br>(V) | Emergency<br>time<br>应急时间<br>(h) | Charge<br>time<br>充电时间<br>(h) | Battery<br>Type<br>电池 | Dimensions<br>LxWxH<br>尺寸<br>(mm) |
|-----------------------------------------------------------------------------------|-----------------|---------------------------------|---------------------------------------|------------------------------------------|-----------------------------------------|----------------------------------|-------------------------------|-----------------------|-----------------------------------|
|  | ECC-SP-20       | 220-240                         | 2.1                                   | 700                                      | 2.5-3.5                                 | 3                                | 24                            | LiFePO4 12.8V 3.0Ah   | 114x35x21                         |

## Combined Emergency Light LED Driver

|                                                                                     | Model No.<br>型号 | Input<br>voltage<br>额定电压<br>(V) | Emergency<br>LED power<br>应急功率<br>(W) | Emergency<br>LED current<br>应急电流<br>(mA) | Emergency<br>LED voltage<br>应急电压<br>(V) | Emergency<br>time<br>应急时间<br>(h) | Charge<br>time<br>充电时间<br>(h) | Battery<br>Type<br>电池 | Dimensions<br>LxWxH<br>尺寸<br>(mm) |
|-------------------------------------------------------------------------------------|-----------------|---------------------------------|---------------------------------------|------------------------------------------|-----------------------------------------|----------------------------------|-------------------------------|-----------------------|-----------------------------------|
|  | LCM-45 EC23     | 220-240                         | 2.3                                   | 230-47                                   | 15-48                                   | 1.5                              | 16                            | LiFePO4 3.2V 3.3Ah    | 330x30x21.5                       |
|                                                                                     | LCM-45 EC30     | 220-240                         | 3.0                                   | 300-62                                   | 15-48                                   | 1.5                              | 16                            | LiFePO4 3.2V 4.5Ah    | 330x30x21.5                       |
|                                                                                     | LCM-45 EC32     | 220-240                         | 3.2                                   | 320-66                                   | 15-48                                   | 1.5                              | 16                            | LiFePO4 3.2V 4.5Ah    | 330x30x21.5                       |
|                                                                                     | LCM-45 EC40     | 220-240                         | 4.0                                   | 400-83                                   | 15-48                                   | 1.5                              | 16                            | LiFePO4 3.2V 6.6Ah    | 330x30x21.5                       |

## LED Emergency Light

|                                                                                     | Model No.<br>型号 | Input<br>voltage<br>额定电压<br>(V) | Emergency<br>LED power<br>应急功率<br>(W) | CCT<br>色温<br>(K) | CRI<br>显指 | Luminous<br>Flux<br>光通<br>(lm) | Emergency<br>time<br>应急时间<br>(h) | Charge<br>time<br>充电时间<br>(h) | IP rating<br>IP等级 | Dimensions<br>LxWxH<br>尺寸<br>(mm) |
|-------------------------------------------------------------------------------------|-----------------|---------------------------------|---------------------------------------|------------------|-----------|--------------------------------|----------------------------------|-------------------------------|-------------------|-----------------------------------|
|  | EMLED 1W        | 220-240                         | 0.8                                   | 5700             | 82        | 120                            | 3                                | 24                            | IP20              | Ø110x49                           |
|                                                                                     | EMLED 2W        | 220-240                         | 1.8                                   | 5700             | 82        | 240                            | 3                                | 24                            | IP20              | Ø110x56                           |
|                                                                                     | EMLED 1W DALI   | 220-240                         | 0.8                                   | 5700             | 82        | 120                            | 3                                | 24                            | IP20              | Ø110x49                           |
|                                                                                     | EMLED 2W DALI   | 220-240                         | 1.8                                   | 5700             | 82        | 240                            | 3                                | 24                            | IP20              | Ø110x56                           |
|  | EL-D1-10        | 220-240                         | 1.0                                   | 5700             | 82        | 120                            | 3                                | 24                            | IP20              | Ø55x41                            |
|                                                                                     | EL-D1-20        | 220-240                         | 2.0                                   | 5700             | 82        | 240                            | 3                                | 24                            | IP20              | Ø55x41                            |
|                                                                                     | EL-D1-10D       | 220-240                         | 1.0                                   | 5700             | 82        | 120                            | 3                                | 24                            | IP20              | Ø55x41                            |
|                                                                                     | EL-D1-20D       | 220-240                         | 2.0                                   | 5700             | 82        | 240                            | 3                                | 24                            | IP20              | Ø55x41                            |
|  | EL-F1-40        | 220-240                         | 4.0                                   | 5700             | 82        | 500                            | 3                                | 24                            | IP20              | 282x56x225.4                      |
|                                                                                     | EL-F1-40D       | 220-240                         | 4.0                                   | 5700             | 82        | 500                            | 3                                | 24                            | IP20              | 282x56x225.4                      |

# Emergency Exit Sign

|                                                                                   | Model No.<br>型号 | Input voltage<br>额定电压 (V) | Emergency LED power<br>应急功率 (W) | Emergency time<br>应急时间 (h) | Charge time<br>充电时间 (h) | Viewing distance<br>可视距离 (m) | IP rating<br>IP等级 | Dimensions<br>LxWxH 尺寸 (mm) |
|-----------------------------------------------------------------------------------|-----------------|---------------------------|---------------------------------|----------------------------|-------------------------|------------------------------|-------------------|-----------------------------|
|  | EE-A1-12 30M    | 220-240                   | 1.2                             | 3                          | 24                      | 30                           | IP20              | 330x70x253                  |
|                                                                                   | EE-A1-12D 30M   | 220-240                   | 1.2                             | 3                          | 24                      | 30                           | IP20              | 330x70x253                  |
|  | EE-A2-12 30M    | 220-240                   | 1.2                             | 3                          | 24                      | 30                           | IP20              | 365x95x221.6                |
|                                                                                   | EE-A2-12D 30M   | 220-240                   | 1.2                             | 3                          | 24                      | 30                           | IP20              | 365x95x221.6                |
|  | EE-A3-22 50M    | 220-240                   | 2.2                             | 3                          | 24                      | 50                           | IP20              | 555x46.5x372                |
|                                                                                   | EE-A3-22D 50M   | 220-240                   | 2.2                             | 3                          | 24                      | 50                           | IP20              | 555x46.5x372                |
|  | EE-A4-12 30M    | 220-240                   | 1.2                             | 3                          | 24                      | 30                           | IP65              | 365x130x210                 |
|                                                                                   | EE-A4-12D 30M   | 220-240                   | 1.2                             | 3                          | 24                      | 30                           | IP65              | 365x130x210                 |

# LED Emergency Luminaire

|                                                                                     | Model No.<br>型号      | Input voltage<br>额定电压 (V) | Input Power<br>输入功率 (W) | Discharge duration<br>放电时间 (h) | Emergency LED Power<br>应急功率 (W) | CCT<br>色温 (K)   | Luminous Flux<br>光通 (lm) | Power factor<br>功率因数 (λ) | IP rating<br>IP等级 | Dimensions<br>LxWxH 尺寸 (mm) |
|-------------------------------------------------------------------------------------|----------------------|---------------------------|-------------------------|--------------------------------|---------------------------------|-----------------|--------------------------|--------------------------|-------------------|-----------------------------|
|  | BAS 4ft 40W 4000K-EM | 220-240                   | 40                      | 3                              | 2.4                             | 4000            | 4000                     | 0.95                     | IP20              | 1121x84x70                  |
|  | TP228-4000K-EM       | 220-240                   | 40                      | 3                              | 2.4                             | 4000            | 4000                     | 0.95                     | IP65              | 1215x116x74                 |
|  | CT300TC-25W-EM       | 220-240                   | 25                      | 3                              | 2.4                             | 3000/4200 /6000 | 2000/2200 /2150          | 0.95                     | IP54              | Ø300x49                     |
|  | H.EMG.KIT            | 220-240                   | 25                      | 3                              | 24                              | 4000            | 2500                     | 0.95                     | IP20              | Ø270x39                     |

# Remote Enclosure

|                                                                                     | Model No.<br>型号 | Material<br>材质 | IP rating<br>IP等级 | Dimensions<br>LxWxH 尺寸 (mm) | Weight<br>重量 (g) |
|-------------------------------------------------------------------------------------|-----------------|----------------|-------------------|-----------------------------|------------------|
|  | RE              | SECC           | IP20              | 340x90x36                   | 380              |
|  | TPR-EM          | PC             | IP65              | 263.5x184x60.1              | 700              |



EC-LP Sereis

# LED Emergency Light Converter

LED应急转换器



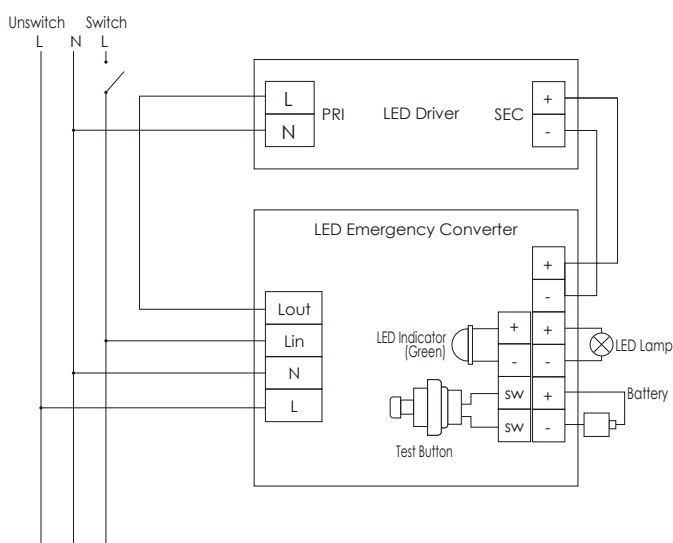
LiFePO4

## Features:

- Self-contained LED emergency converter for manual testing
- Intelligent automatic recharging function
- Constant power output
- For LED modules with a forward voltage 6-54V
- Low profile casing (21 x 30 mm cross-section)
- 3h emergency operation
- Lithium batteries (LiFePO4)
- Over discharge protection
- Test button and charging indicator
- Optional built-in or independent
- SELV equivalent
- Protection class II

- 用于手动测试的自给式LED应急转换器
- 智能自动充电功能
- 恒定输出功率
- 匹配6 - 54V的LED光源
- 薄型外壳（横截面积21x30mm）
- 3小时应急照明
- 锂电池(LiFePO4)
- 电池过放保护
- 测试按钮和充电指示灯
- 可选内装式和独立式
- 符合安全特低电压标准
- 保护等级II

## Product applications:



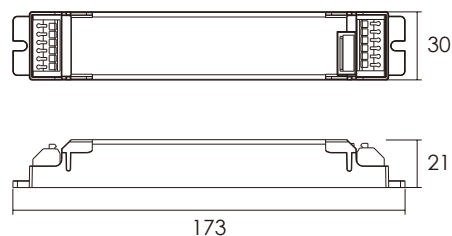
## Parameters (EU Version):

| Technical Data<br>技术参数            | EC-LP-23           | EC-LP-30            | EC-LP-32            | EC-LP-40            |
|-----------------------------------|--------------------|---------------------|---------------------|---------------------|
| Rated supply voltage 额定电压         | 220-240V~          | 220-240V~           | 220-240V~           | 220-240V~           |
| Frequency 额定频率                    | 50/60Hz            | 50/60Hz             | 50/60Hz             | 50/60Hz             |
| Input current 输入电流                | 30mA               | 30mA                | 30mA                | 40mA                |
| Input power 输入功率                  | 3.5W               | 3.5W                | 3.5W                | 4W                  |
| Power factor 功率因数                 | 0.65C              | 0.65C               | 0.65C               | 0.65C               |
| Response time 响应时间                | <0.5S              | <0.5S               | <0.5S               | <0.5S               |
| Charge current 充电电流               | 250mA              | 250mA               | 250mA               | 300mA               |
| Recharge hours 充电时间               | 16h*               | 24h*                | 24h*                | 24h*                |
| Emergency LED current 应急电流        | 383-42mA           | 500-55mA            | 530-60mA            | 665-75mA            |
| Emergency LED voltage 应急电压        | 6-54V              | 6-54V               | 6-54V               | 6-54V               |
| Emergency LED power 应急功率          | 2.3W               | 3.0W                | 3.2W                | 4.0W                |
| Emergency LED power time 应急时间     | 3h*                | 3h*                 | 3h*                 | 3h*                 |
| Ambient temperature ta 环境温度       | 0...+55°C          | 0...+55°C           | 0...+55°C           | 0...+55°C           |
| Max. casing temperature tc 最大外壳温度 | 70°C               | 70°C                | 70°C                | 70°C                |
| Battery type 电池                   | LiFePO4 3.2V 3.3Ah | LiFePO4 3.2V 4.5Ah* | LiFePO4 3.2V 6.6Ah* | LiFePO4 3.2V 7.6Ah* |
| Material 材质                       | PC                 | PC                  | PC                  | PC                  |
| Dimensions LxWxH 尺寸               | 173x30x21mm        | 173x30x21mm         | 173x30x21mm         | 173x30x21mm         |
| Fixing centre D 安装孔距              | 164mm              | 164mm               | 164mm               | 164mm               |

### \*Parameter difference for AU version

|                               |                    |                    |                    |                    |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|
| Recharge hours 充电时间           | 16h                | 16h                | 16h                | 16h                |
| Emergency LED power time 应急时间 | 1.5h               | 1.5h               | 1.5h               | 1.5h               |
| Battery type 电池               | LiFePO4 3.2V 3.3Ah | LiFePO4 3.2V 3.3Ah | LiFePO4 3.2V 4.5Ah | LiFePO4 3.2V 4.5Ah |

Line drawing(mm):

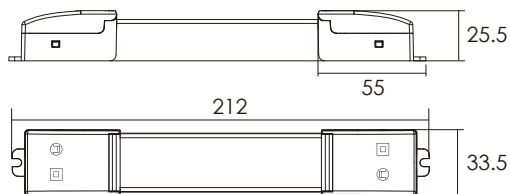


Optional accessories

Strain relief:



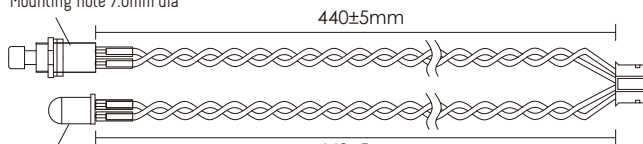
AC-SR01



AC-SR01 CLIP-ON PA(pre assembled)

Test Button & Status Indication LED

Mounting hole 7.0mm dia



Mounting hole 6.5mm dia  
Green LED (EU)  
Red LED (AU)

## EC-LP-D Series

## LED Emergency Light Converter

LED应急转换器

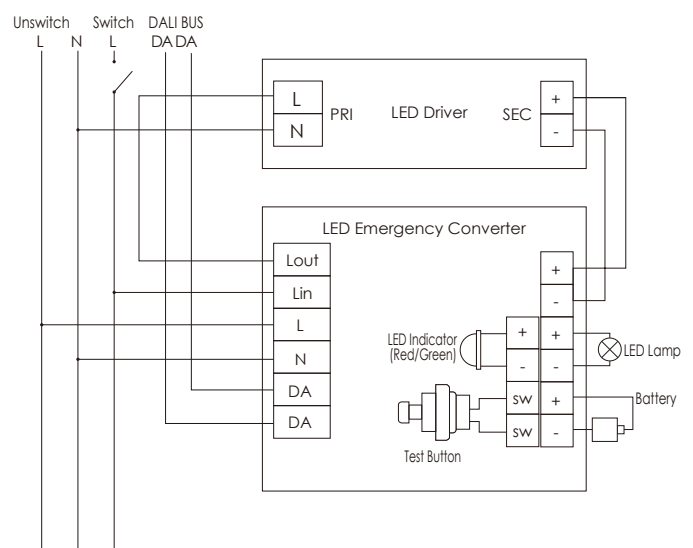


LiFePO4

## Features:

- Self-contained LED emergency converter with DALI interface & automatic test function
  - lithium battery intelligent automatic recharging
  - Constant power output
  - For LED modules with a forward voltage 6-54V
  - Low profile casing (21 x 30 mm cross-section)
  - 3h emergency operation
  - Lithium batteries (LiFePO4)
  - Over discharge protection
  - Two colours status display LED
  - Optional built-in or independent
  - SELV equivalent
  - Protection class II
- 
- 具有DALI接口和自动测试功能的自给式LED应急转换器
  - 锂电池智能自动充电
  - 恒定输出功率
  - 匹配6-54V的LED光源
  - 薄型外壳（横截面积21x30mm）
  - 3小时应急照明
  - 锂电池(LiFePO4)
  - 电池过放保护
  - 两种颜色LED状态指示灯
  - 可选内装式和独立式
  - 符合安全特低电压标准
  - 保护等级II

## Product applications:



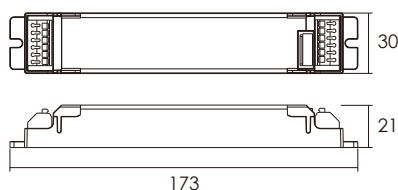
## Parameters (EU Version):

| Technical Data<br>技术参数            | EC-LP-23D           | EC-LP-30D           | EC-LP-32D           | EC-LP-40D           |
|-----------------------------------|---------------------|---------------------|---------------------|---------------------|
| Rated supply voltage 额定电压         | 220-240V~           | 220-240V~           | 220-240V~           | 220-240V~           |
| Frequency 额定频率                    | 50/60HZ             | 50/60HZ             | 50/60HZ             | 50/60HZ             |
| Input current 输入电流                | 35mA                | 40mA                | 40mA                | 40mA                |
| Input power 输入功率                  | 4.5W                | 4.5W                | 4.5W                | 4.5W                |
| Power factor 功率因数                 | 0.70C               | 0.70C               | 0.70C               | 0.70C               |
| Response time 响应时间                | <0.5S               | <0.5S               | <0.5S               | <0.5S               |
| Charge current 充电电流               | 380mA*              | 380mA               | 380mA               | 380mA               |
| Recharge hours 充电时间               | 16h*                | 24h*                | 24h*                | 24h*                |
| Emergency LED current 应急电流        | 383-42mA            | 500-55mA            | 530-60mA            | 665-75mA            |
| Emergency LED voltage 应急电压        | 6-54V               | 6-54V               | 6-54V               | 6-54V               |
| Emergency LED power 应急功率          | 2.3W                | 3.0W                | 3.2W                | 4W                  |
| Emergency LED power time 应急时间     | 3h*                 | 3h*                 | 3h*                 | 3h*                 |
| Ambient temperature ta 环境温度       | 0..55°C             | 0..55°C             | 0..55°C             | 0..55°C             |
| Max. casing temperature tc 最大外壳温度 | 70°C                | 70°C                | 70°C                | 70°C                |
| Battery type 电池                   | LiFePo4 3.2V 4.5Ah* | LiFePo4 3.2V 6.6Ah* | LiFePo4 3.2V 6.6Ah* | LiFePo4 3.2V 7.6Ah* |
| Material 材质                       | PC                  | PC                  | PC                  | PC                  |
| Dimensions LxWxH 尺寸               | 173X30X21mm         | 173X30X21mm         | 173X30X21mm         | 173X30X21mm         |
| Fixing centre D 安装孔距              | 164mm               | 164mm               | 164mm               | 164mm               |

## \*Parameter difference for AU version:

|                               |                    |                    |                    |                    |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|
| Charge current 充电电流           | 260mA              | /                  | /                  | /                  |
| Recharge hours 充电时间           | 16h                | 16h                | 16h                | 16h                |
| Emergency LED power time 应急时间 | 1.5h               | 1.5h               | 1.5h               | 1.5h               |
| Ambient temperature ta 环境温度   | LiFePo4 3.2V 3.3Ah | LiFePo4 3.2V 4.5Ah | LiFePo4 3.2V 4.5Ah | LiFePo4 3.2V 6.6Ah |

## Line drawing(mm):

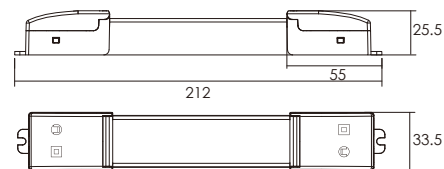


## Optional accessories:

Strain relief: AC-SR01



AC-SR01



AC-SR01 CLIP-ON PA(pre assembled)

## Status indication (For EU):

System status is indicated by a bi-colour LED and by a DALI status flag

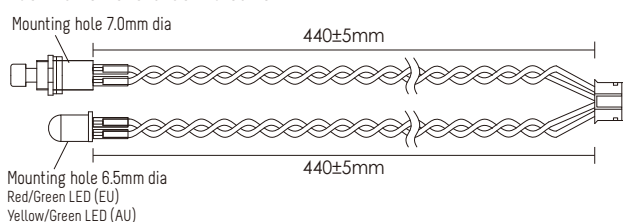
| LED indication                                 | Status                 | Comment                                                                                                                  |
|------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Permanent green                                | System OK              | AC mode                                                                                                                  |
| Fast flashing green (0.1 sec on - 0.1 sec off) | Function test underway | /                                                                                                                        |
| Slow flashing green (1 sec on - 1 sec off)     | Duration test underway | /                                                                                                                        |
| Red LED on                                     | Load failure           | Open circuit / Short circuit / LED failure                                                                               |
| Slow flashing red (1 sec on - 1 sec off)       | Battery failure        | Battery failed the duration test or function test/<br>Battery is defect or deep discharged/<br>Incorrect battery voltage |
| Fast flashing red (0.1 sec on - 0.1 sec off)   | Charging failure       | Incorrect charging current                                                                                               |
| Double pulsing green                           | Inhibit mode           | Switching into inhibit mode via controller                                                                               |
| Green and red off                              | Emergency mode         | /                                                                                                                        |

## Test Switch:

An optional test switch can be wired to each EM converter LED. This can be used to:

| Key operation          | Functional Description             |
|------------------------|------------------------------------|
| press 200 ms < T < 1 s | Initiate a 5 seconds function test |
| press > 10 s           | Reset selftest timer               |

## Test Button &amp; Status Indication LED:



## Status indication (For AU):

System status is indicated by a bi-colour LED and by a DALI status flag

| LED indication                                            | Status                                         | Comment                                                                                                                  |
|-----------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Permanent green                                           | System OK                                      | AC mode                                                                                                                  |
| Flashing yellow (0.5 sec on - 0.5 sec off)                | Function test underway                         | /                                                                                                                        |
| Flashing yellow (2 sec on - 2 sec off)                    | Duration test underway / 16h Pre-Commissioning | /                                                                                                                        |
| Flashing yellow (4 sec on - 1 sec off)                    | Recently Duration tested and complies          | The fitting has passed a test. This indication remains for 5 days after the test and then changes to solid green.        |
| Flashing yellow (0.5 sec on - 2 sec off)                  | Battery failure                                | Battery failed the duration test or function test/<br>Battery is defect or deep discharged/<br>Incorrect battery voltage |
| Flashing yellow&green (yellow 0.5 sec on, green 2 sec on) | Load failure/control failure                   | Open circuit/Short circuit/LED failure                                                                                   |
| Double pulsing green                                      | Inhibit mode                                   | Switching into inhibit mode via controller                                                                               |
| Green and yellow off                                      | Emergency mode                                 | /                                                                                                                        |

## Self Detection Function:

| Self detection function      | Functional Description                                                                                                                                                                                                                                                                          |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functional test              | The time of day and frequency of the 5 seconds function test can be set by the DALI controller. The default setting is a 5 seconds function test on a weekly basis                                                                                                                              |
| Emergency duration time test | The time of day and frequency of the duration test can be set by the DALI controller. The default setting is a duration test conducted every 52 weeks <sup>1</sup><br>Initiate a 3 hours <sup>2</sup> Emergency duration time test after new battery been full charged (24 hours <sup>3</sup> ) |

For AU version: <sup>1</sup>6 months, <sup>2</sup>2 hours, <sup>3</sup>16 hours

EC-LP Sereis

# LED Emergency Light Converter

LED应急转换器

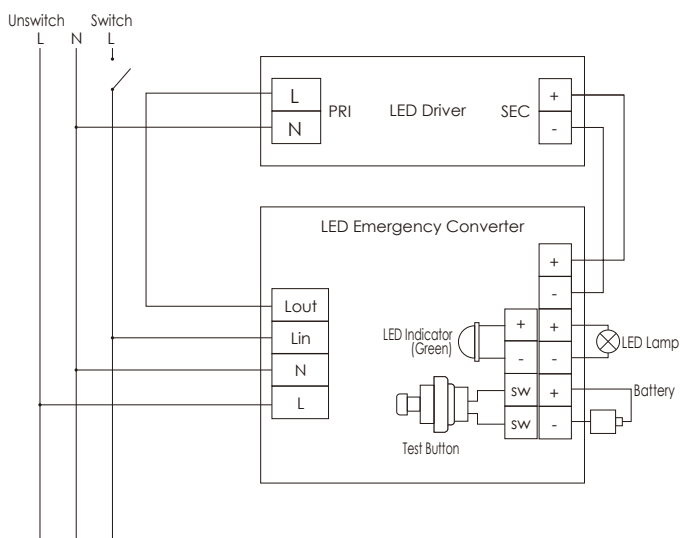

 LiFePO4

## Features:

- Self-contained LED emergency converter for manual testing
- Intelligent automatic recharging function
- Constant power output
- For LED modules with a forward voltage 50-300V
- Low profile casing (21 x 30 mm cross-section)
- 3 hours emergency operation
- Lithium batteries (LiFePO4)
- Over discharge protection
- Test button and charging indicator
- Optional built-in or independent
- Protection class II

- 用于手动测试的自给式LED应急转换器
- 智能自动充电功能
- 恒定输出功率
- 匹配50-300V的LED光源
- 薄型外壳（横截面积21x30mm）
- 3小时应急照明
- 锂电池(LiFePO4)
- 电池过放保护
- 测试按钮和充电指示灯
- 可选内装式和独立式
- 保护等级II

Product applications:



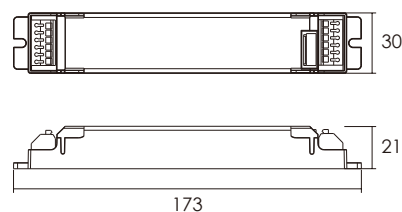
## Parameters (EU Version):

| Technical Data<br>技术参数            | EC-LP-23H          | EC-LP-30H           | EC-LP-32H          | EC-LP-40H           |
|-----------------------------------|--------------------|---------------------|--------------------|---------------------|
| Rated supply voltage 额定电压         | 220-240V~          | 220-240V~           | 220-240V~          | 220-240V~           |
| Frequency 额定频率                    | 50/60Hz            | 50/60Hz             | 50/60Hz            | 50/60Hz             |
| Input current 输入电流                | 30mA               | 30mA                | 30mA               | 40mA                |
| Input power 输入功率                  | 3.5W               | 3.5W                | 3.5W               | 4W                  |
| Power factor 功率因数                 | 0.65C              | 0.65C               | 0.65C              | 0.65C               |
| Response time 响应时间                | <0.5S              | <0.5S               | <0.5S              | <0.5S               |
| Charge current 充电电流               | 280mA              | 280mA               | 280mA              | 300mA               |
| Recharge hours 充电时间               | 16h*               | 24h*                | 24h*               | 24h*                |
| Emergency LED current 应急电流        | 46-8mA             | 60-10mA             | 64-11mA            | 80-13mA             |
| Emergency LED voltage 应急电压        | 50-300V            | 50-300V             | 50-300V            | 50-300V             |
| Emergency LED power 应急功率          | 2.3W               | 3.0W                | 3.2W               | 4.0W                |
| Emergency LED power time 应急时间     | 3h*                | 3h*                 | 3h*                | 3h*                 |
| Ambient temperature ta 环境温度       | 0...+55°C          | 0...+55°C           | 0...+55°C          | 0...+55°C           |
| Max. casing temperature tc 最大外壳温度 | 90°C               | 90°C                | 90°C               | 90°C                |
| Battery type 电池                   | LiFePO4 3.2V 3.3Ah | LiFePO4 3.2V 4.5Ah* | LiFePO4 3.2V 6.6Ah | LiFePO4 3.2V 7.6Ah* |
| Material 材质                       | PC                 | PC                  | PC                 | PC                  |
| Dimensions LxWxH 尺寸               | 173x30x21mm        | 173x30x21mm         | 173x30x21mm        | 173x30x21mm         |
| Fixing centre D 安装孔距              | 164mm              | 164mm               | 164mm              | 164mm               |

### \*Parameter difference for AU version

|                               |      |                    |                    |                    |
|-------------------------------|------|--------------------|--------------------|--------------------|
| Recharge hours 充电时间           | 16h  | 16h                | 16h                | 16h                |
| Emergency LED power time 应急时间 | 1.5h | 1.5h               | 1.5h               | 1.5h               |
| Battery type 电池               | /    | LiFePO4 3.2V 3.3Ah | LiFePO4 3.2V 4.5Ah | LiFePO4 3.2V 4.5Ah |

Line drawing(mm):

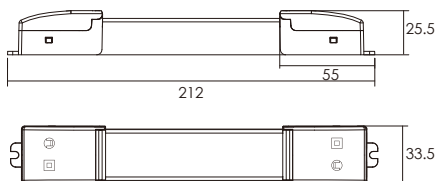


### Optional accessories

Strain relief:

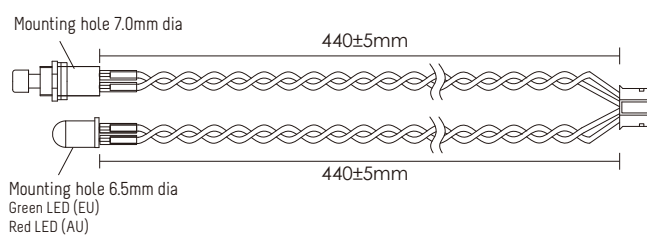


AC-SR01



AC-SR01 CLIP-ON PA(pre assembled)

### Test Button & Status Indication LED



EC-LP-D Series

## LED Emergency Light Converter

LED应急转换器



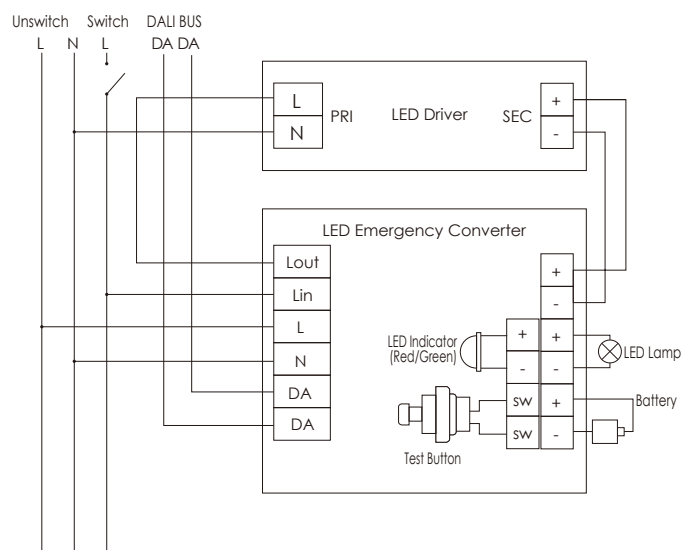
LiFePO4

## Features:

- Self-contained LED emergency converter with DALI interface & automatic test function
- lithium battery intelligent automatic recharging
- Constant power output
- For LED modules with a forward voltage 50-300V
- Low profile casing (21 x 30 mm cross-section)
- 3h emergency operation
- Lithium batteries (LiFePO4)
- Over discharge protection
- Two colours status display LED
- Optional built-in or independent
- Protection class II

- 具有DALI接口和自动测试功能的自给式LED应急转换器
- 锂电池智能自动充电
- 恒定输出功率
- 匹配50-300V的LED光源
- 薄型外壳（横截面积21x30mm）
- 3小时应急照明
- 锂电池(LiFePO4)
- 电池过放保护
- 两种颜色LED状态指示灯
- 可选内装式和独立式
- 保护等级II

## Product applications:



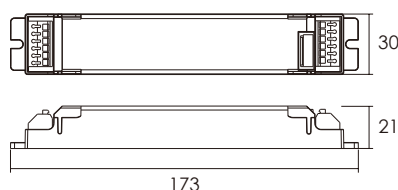
## Parameters (EU Version):

| Technical Data<br>技术参数            | EC-LP-23HD          | EC-LP-30HD          | EC-LP-32HD          | EC-LP-40HD          |
|-----------------------------------|---------------------|---------------------|---------------------|---------------------|
| Rated supply voltage 额定电压         | 220-240V~           | 220-240V~           | 220-240V~           | 220-240V~           |
| Frequency 额定频率                    | 50/60Hz             | 50/60Hz             | 50/60Hz             | 50/60Hz             |
| Input current 输入电流                | 30mA                | 30mA                | 30mA                | 40mA                |
| Input power 输入功率                  | 4.5W                | 4.5W                | 4.5W                | 4.5W                |
| Power factor 功率因数                 | 0.70C               | 0.70C               | 0.70C               | 0.70C               |
| Response time 响应时间                | <0.5S               | <0.5S               | <0.5S               | <0.5S               |
| Charge current 充电电流               | 380mA*              | 380mA               | 380mA               | 380mA               |
| Recharge hours 充电时间               | 16h*                | 24h*                | 24h*                | 24h*                |
| Emergency LED current 应急电流        | 48-8mA              | 60-10mA             | 64-11mA             | 80-13mA             |
| Emergency LED voltage 应急电压        | 50-300V             | 50-300V             | 50-300V             | 50-300V             |
| Emergency LED power 应急功率          | 2.3W                | 3.0W                | 3.2W                | 4.0W                |
| Emergency LED power time 应急时间     | 3h*                 | 3h*                 | 3h*                 | 3h*                 |
| Ambient temperature ta 环境温度       | 0...+55°C           | 0...+55°C           | 0...+55°C           | 0...+55°C           |
| Max. casing temperature tc 最大外壳温度 | 85°C                | 85°C                | 85°C                | 85°C                |
| Battery type 电池                   | LiFePO4 3.2V 4.5Ah* | LiFePO4 3.2V 6.6Ah* | LiFePO4 3.2V 6.6Ah* | LiFePO4 3.2V 7.6Ah* |
| Material 材质                       | PC                  | PC                  | PC                  | PC                  |
| Dimensions LxWxH 尺寸               | 173x30x21mm         | 173x30x21mm         | 173x30x21mm         | 173x30x21mm         |
| Fixing centre D 安装孔距              | 164mm               | 164mm               | 164mm               | 164mm               |

### \*Parameter difference for AU version:

|                               |                    |                    |                    |                    |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|
| Charge current 充电电流           | 280mA              | /                  | /                  | /                  |
| Recharge hours 充电时间           | 16h                | 16h                | 16h                | 16h                |
| Emergency LED power time 应急时间 | 1.5h               | 1.5h               | 1.5h               | 1.5h               |
| Ambient temperature ta 环境温度   | LiFePo4 3.2V 3.3Ah | LiFePo4 3.2V 4.5Ah | LiFePo4 3.2V 4.5Ah | LiFePo4 3.2V 6.6Ah |

### Line drawing(mm):

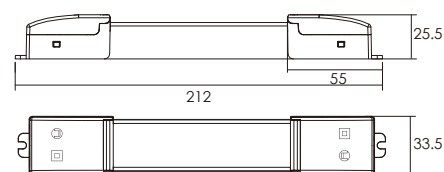


### Optional accessories:

Strain relief: AC-SR01



AC-SR01



AC-SR01 CLIP-ON PA(pre assembled)

### Status indication (For EU):

System status is indicated by a bi-colour LED and by a DALI status flag

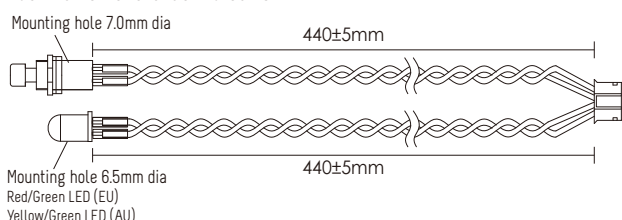
| LED indication                                 | Status                 | Comment                                                                                                                  |
|------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Permanent green                                | System OK              | AC mode                                                                                                                  |
| Fast flashing green (0.1 sec on - 0.1 sec off) | Function test underway | /                                                                                                                        |
| Slow flashing green (1 sec on - 1 sec off)     | Duration test underway | /                                                                                                                        |
| Red LED on                                     | Load failure           | Open circuit / Short circuit / LED failure                                                                               |
| Slow flashing red (1 sec on - 1 sec off)       | Battery failure        | Battery failed the duration test or function test/<br>Battery is defect or deep discharged/<br>Incorrect battery voltage |
| Fast flashing red (0.1 sec on - 0.1 sec off)   | Charging failure       | Incorrect charging current                                                                                               |
| Double pulsing green                           | Inhibit mode           | Switching into inhibit mode via controller                                                                               |
| Green and red off                              | Emergency mode         | /                                                                                                                        |

### Test Switch:

An optional test switch can be wired to each EM converter LED. This can be used to:

| Key operation          | Functional Description             |
|------------------------|------------------------------------|
| press 200 ms < T < 1 s | Initiate a 5 seconds function test |
| press > 10 s           | Reset selftest timer               |

### Test Button & Status Indication LED:



### Status indication (For AU):

System status is indicated by a bi-colour LED and by a DALI status flag

| LED indication                                            | Status                                         | Comment                                                                                                                  |
|-----------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Permanent green                                           | System OK                                      | AC mode                                                                                                                  |
| Flashing yellow (0.5 sec on - 0.5 sec off)                | Function test underway                         | /                                                                                                                        |
| Flashing yellow (2 sec on - 2 sec off)                    | Duration test underway / 16h Pre-Commissioning | /                                                                                                                        |
| Flashing yellow (4 sec on - 1 sec off)                    | Recently Duration tested and complies          | The fitting has passed a test. This indication remains for 5 days after the test and then changes to solid green.        |
| Flashing yellow (0.5 sec on - 2 sec off)                  | Battery failure                                | Battery failed the duration test or function test/<br>Battery is defect or deep discharged/<br>Incorrect battery voltage |
| Flashing yellow&green (yellow 0.5 sec on, green 2 sec on) | Load failure/control failure                   | Open circuit/Short circuit/LED failure                                                                                   |
| Double pulsing green                                      | Inhibit mode                                   | Switching into inhibit mode via controller                                                                               |
| Green and yellow off                                      | Emergency mode                                 | /                                                                                                                        |

### Self Detection Function:

| Self detection function      | Functional Description                                                                                                                                                                                                                                                                         |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functional test              | The time of day and frequency of the 5 seconds function test can be set by the DALI controller. The default setting is a 5 seconds function test on a weekly basis                                                                                                                             |
| Emergency duration time test | The time of day and frequency of the duration test can be set by the DALI controller. The default setting is a duration test conducted every 52 weeks <sup>1</sup><br>Initiate a 3 hours <sup>2</sup> Emergency duration time test after new battery been full charged (24hours <sup>3</sup> ) |

For AU version: <sup>1</sup>6 months, <sup>2</sup>2 hours, <sup>3</sup>16 hours

EC-LP-60D/60HD

## LED Emergency Light Converter

LED应急转换器

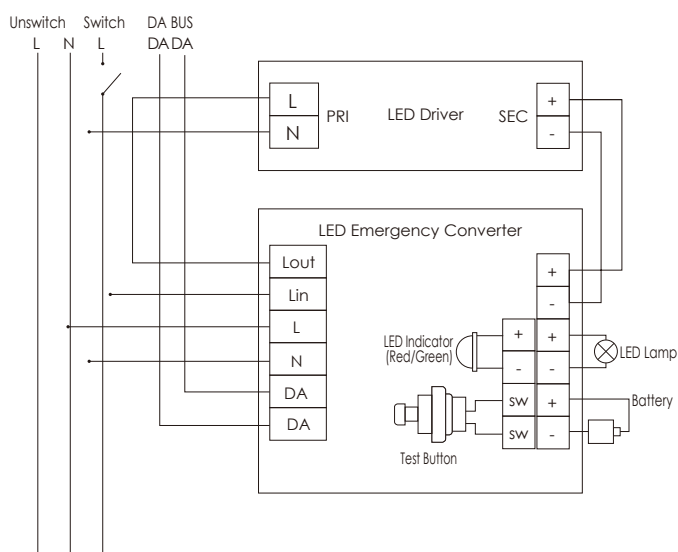
New  
product

## Features:

- Self-contained LED emergency converter with DALI interface & automatic test function
- Li-Ion battery intelligent automatic recharging
- Constant power output
- For LED modules with a forward voltage 10-54V / 50-300V
- Low profile casing (21x30 mm cross-section)
- 1.5h emergency operation
- Over discharge protection
- Two colours status display LED
- SELV equivalent(only EC-LP-60D)
- Protection class II

- 具有DALI接口和自动测试功能的自给式LED应急转换器
- 锂电池智能自动充电
- 恒定输出功率
- 可匹配10 - 54V/50 - 300V的LED光源
- 薄型外壳（横截面积21x30mm）
- 1.5小时应急照明
- 电池过放保护
- 两种颜色LED状态指示灯
- 可选内装式和独立式
- 可符合安全特低电压标准（EC-LP-60D）
- 保护等级II

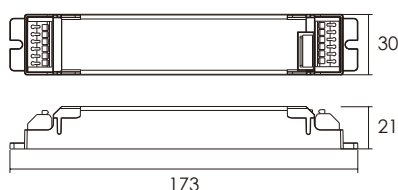
## Product applications:



## Parameters (US Version):

| Technical Data<br>技术参数            | EC-LP-60D         | EC-LP-60HD        |
|-----------------------------------|-------------------|-------------------|
| Rated supply voltage 额定电压         | 110-277V~         | 110-277V~         |
| Frequency 额定频率                    | 50/60Hz           | 50/60Hz           |
| Input current 输入电流                | 45mA              | 45mA              |
| Input power 输入功率                  | 4.5W              | 4.5W              |
| Power factor 功率因数                 | 0.70C             | 0.70C             |
| Response time 响应时间                | <0.5s             | <0.5s             |
| Charge current 充电电流               | 200mA             | 200mA             |
| Recharge hours 充电时间               | 24h               | 24h               |
| Emergency LED current 应急电流        | 600-112mA         | 120-20mA          |
| Emergency LED voltage 应急电压        | 10-54V            | 50-300V           |
| Emergency LED power 应急功率          | 6W                | 6W                |
| Emergency LED power time 应急时间     | 1.5h              | 1.5h              |
| Ambient temperature ta 环境温度       | 0...+55°C         | 0...+55°C         |
| Max. casing temperature tc 最大外壳温度 | 70°C              | 70°C              |
| Battery type 电池                   | Li-Ion 7.4V 2.5Ah | Li-Ion 7.4V 2.5Ah |
| Material 材质                       | PC                | PC                |
| Dimensions LxWxH 尺寸               | 173x30x21mm       | 173x30x21mm       |
| Fixing centre D 安装孔距              | 164mm             | 164mm             |

Line drawing(mm):

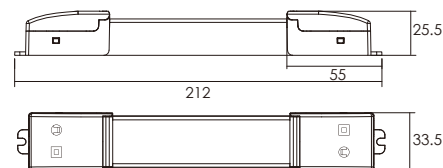


Optional accessories:

Strain relief: AC-SR01



AC-SR01



AC-SR01 CLIP-ON PA(pre assembled)

Status indication:

System status is indicated by a bi-colour LED and by a DALI status flag

| LED indication                                 | Status                 | Comment                                                                                                                  |
|------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Permanent green                                | System OK              | AC mode                                                                                                                  |
| Fast flashing green (0.1 sec on – 0.1 sec off) | Function test underway | /                                                                                                                        |
| Slow flashing green (1 sec on – 1 sec off)     | Duration test underway | /                                                                                                                        |
| Red LED on                                     | Load failure           | Open circuit / Short circuit / LED failure                                                                               |
| Slow flashing red (1 sec on – 1 sec off)       | Battery failure        | Battery failed the duration test or function test/<br>Battery is defect or deep discharged/<br>Incorrect battery voltage |
| Fast flashing red (0.1 sec on – 0.1 sec off)   | Charging failure       | Incorrect charging current                                                                                               |
| Double pulsing green                           | Inhibit mode           | Switching into inhibit mode via controller                                                                               |
| Green and red off                              | Emergency mode         | /                                                                                                                        |

Self Detection Function:

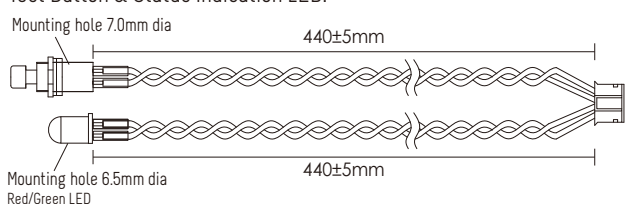
| Self detection function      | Functional Description                                                                                                                                                                                                                                    |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functional test              | The time of day and frequency of the 30 seconds function test can be set by the DALI controller. The default setting is a 30 seconds function test on a monthly basis                                                                                     |
| Emergency duration time test | The time of day and frequency of the duration test can be set by the DALI controller. The default setting is a duration test conducted every 52 weeks<br>Initiate a 1.5 hours Emergency duration time test after new battery been full charged (24 hours) |

Test Switch:

An optional test switch can be wired to each EM converterLED. This can be used to to:

| Key operation          | Functional Description             |
|------------------------|------------------------------------|
| press 200 ms < T < 1 s | Initiate a 5 seconds function test |
| press > 10 s           | Reset selftest timer               |

Test Button &amp; Status Indication LED:



EM2332 EM3032 EM3832 EM4032

# LED Emergency Light Converter

LED应急转换器

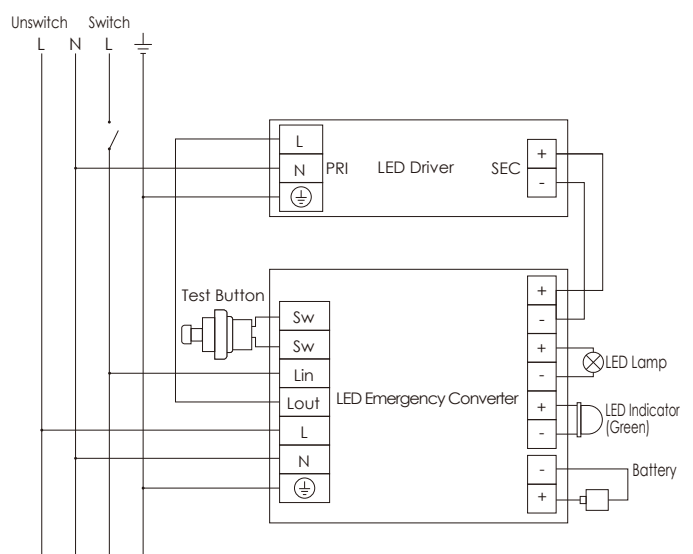

 LiFePO4

## Features:

- Self-contained LED emergency converter for manual testing
- Intelligent automatic recharging function
- Constant power output
- For LED modules with a forward voltage 6-60V
- 3h emergency operation
- Lithium batteries (LiFePO4)
- Over discharge protection
- Test button and charging indicator
- Converter for built-in use
- SELV equivalent
- Protection class I

- 用于手动测试的自给式LED应急转换器
- 智能自动充电功能
- 恒定输出功率
- 匹配6-60V的LED光源
- 3小时应急照明
- 锂电池(LiFePO4)
- 电池过放保护
- 测试按钮和充电指示灯
- 内装式转换器
- 符合安全特低电压标准
- 保护等级I

Product applications:



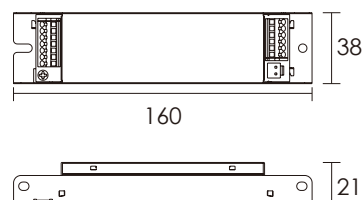
## Parameters (EU Version):

| Technical Data<br>技术参数            | EM2332             | EM3032              | EM3832              | EM4032              |
|-----------------------------------|--------------------|---------------------|---------------------|---------------------|
| Rated supply voltage 额定电压         | 220-240V~          | 220-240V~           | 220-240V~           | 220-240V~           |
| Frequency 额定频率                    | 50/60Hz            | 50/60Hz             | 50/60Hz             | 50/60Hz             |
| Input current 输入电流                | 30mA               | 30mA                | 40mA                | 40mA                |
| Input power 输入功率                  | 3.5W               | 3.5W                | 4.0W                | 4.0W                |
| Power factor 功率因数                 | 0.70C              | 0.70C               | 0.70C               | 0.70C               |
| Response time 响应时间                | <0.5S              | <0.5S               | <0.5S               | <0.5S               |
| Charge current 充电电流               | 280mA              | 280mA               | 370mA               | 370mA               |
| Recharge hours 充电时间               | 16h*               | 24h*                | 24h*                | 24h*                |
| Emergency LED current 应急电流        | 370-38mA           | 500-50mA            | 630-63mA            | 665-65mA            |
| Emergency LED voltage 应急电压        | 6-60V              | 6-60V               | 6-60V               | 6-60V               |
| Emergency LED power 应急功率          | 2.3W               | 3.0W                | 3.8W                | 4.0W                |
| Emergency LED power time 应急时间     | 3h*                | 3h*                 | 3h*                 | 3h*                 |
| Ambient temperature ta 环境温度       | 0...+50°C          | 0...+50°C           | 0...+50°C           | 0...+50°C           |
| Max. casing temperature tc 最大外壳温度 | 80°C               | 80°C                | 80°C                | 80°C                |
| Battery type 电池                   | LiFePO4 3.2V 3.3Ah | LiFePO4 3.2V 4.5Ah* | LiFePO4 3.2V 6.6Ah* | LiFePO4 3.2V 6.6Ah* |
| Material 材质                       | SECC               | SECC                | SECC                | SECC                |
| Dimensions LxWxH 尺寸               | 160x38x21mm        | 160x38x21mm         | 160x38x21mm         | 160x38x21mm         |
| Fixing centre D 安装孔距              | 150mm              | 150mm               | 150mm               | 150mm               |

### \*Parameter difference for AU version

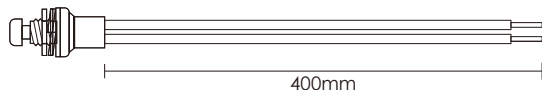
|                               |      |                    |                    |                    |
|-------------------------------|------|--------------------|--------------------|--------------------|
| Recharge hours 充电时间           | 16h  | 16h                | 16h                | 16h                |
| Emergency LED power time 应急时间 | 1.5h | 1.5h               | 1.5h               | 1.5h               |
| Battery type 电池               | /    | LiFePO4 3.2V 3.3Ah | LiFePO4 3.2V 4.5Ah | LiFePO4 3.2V 4.5Ah |

Line drawing(mm):



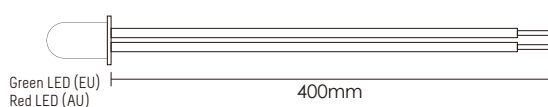
### Test Button

Mounting hole 7.0mm dia



### Status Indication LED

Mounting hole 6.5mm dia



EM2332A EM3832A

# LED Emergency Light Converter

LED应急转换器

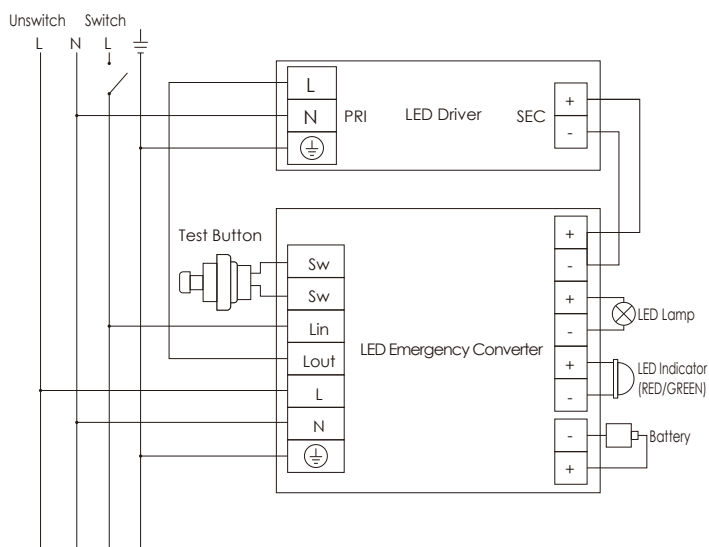

 LiFePO4

## Features:

- LED emergency converter with self-test function
- Intelligent automatic recharging function
- Constant power output
- For LED modules with a forward voltage 6-60V
- 3 hours emergency operation
- Lithium batteries (LiFePO4)
- Over discharge protection
- Two colours status display LED
- Optional built-in or independent
- SELV equivalent

- 带有自检功能的LED应急转换器
- 智能自动充电功能
- 恒定输出功率
- 匹配6 - 60V的LED光源
- 3小时应急照明
- 锂电池(LiFePO4)
- 电池过放保护
- 两种颜色LED状态指示灯
- 可选内装式和独立式
- 符合安全特低电压标准

## Product applications:



## Parameters (EU Version):

| Technical Data<br>技术参数            | EM2332A             | EM3832A             | EM2332AI            | EM3832AI            |
|-----------------------------------|---------------------|---------------------|---------------------|---------------------|
| Rated supply voltage 额定电压         | 220-240V~           | 220-240V~           | 220-240V~           | 220-240V~           |
| Frequency 额定频率                    | 50/60Hz             | 50/60Hz             | 50/60Hz             | 50/60Hz             |
| Input current 输入电流                | 30mA                | 30mA                | 30mA                | 30mA                |
| Input power 输入功率                  | 3.5W                | 3.5W                | 3.5W                | 3.5W                |
| Power factor 功率因数                 | 0.70C               | 0.70C               | 0.70C               | 0.70C               |
| Response time 响应时间                | <0.5S               | <0.5S               | <0.5S               | <0.5S               |
| Charge current 充电电流               | 280mA               | 370mA               | 280mA               | 370mA               |
| Recharge hours 充电时间               | 24h*                | 24h*                | 24h*                | 24h*                |
| Emergency LED current 应急电流        | 370-38mA            | 630-63mA            | 370-38mA            | 630-63mA            |
| Emergency LED voltage 应急电压        | 6-60V               | 6-60V               | 6-60V               | 6-60V               |
| Emergency LED power 应急功率          | 2.3W                | 3.8W                | 2.3W                | 3.8W                |
| Emergency LED power time 应急时间     | 3h*                 | 3h*                 | 3h*                 | 3h*                 |
| Ambient temperature ta 环境温度       | 0...+50°C           | 0...+50°C           | 0...+50°C           | 0...+50°C           |
| Max. casing temperature tc 最大外壳温度 | 80°C                | 80°C                | 80°C                | 80°C                |
| Battery type 电池                   | LiFePO4 3.2V 4.5Ah* | LiFePO4 3.2V 6.6Ah* | LiFePO4 3.2V 4.5Ah* | LiFePO4 3.2V 6.6Ah* |
| Material 材质                       | SECC                | SECC                | PC                  | PC                  |
| Dimensions LxWxH 尺寸               | 160x38x21mm         | 160x38x21mm         | 200x42x28mm         | 200x42x28mm         |
| Fixing centre D 安装孔距              | 150mm               | 150mm               | 190mm               | 190mm               |

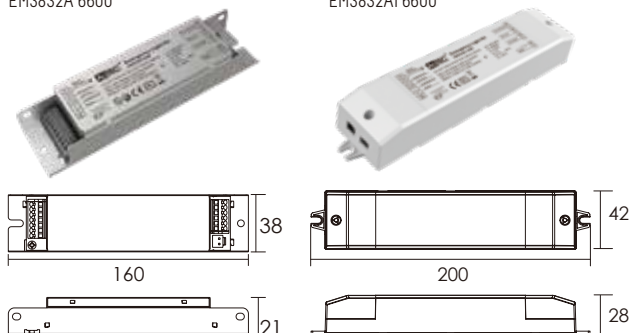
### \*Parameter difference for AU version

|                               |                    |                    |                    |                    |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|
| Recharge hours 充电时间           | 16h                | 16h                | 16h                | 16h                |
| Emergency LED power time 应急时间 | 1.5h               | 1.5h               | 1.5h               | 1.5h               |
| Battery type 电池               | LiFePO4 3.2V 3.3Ah | LiFePO4 3.2V 4.5Ah | LiFePO4 3.2V 3.3Ah | LiFePO4 3.2V 4.5Ah |

### Line drawing(mm):

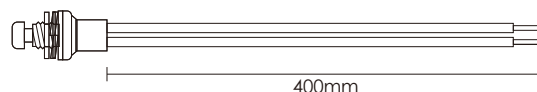
EM2332A 4500  
EM3832A 6600

EM2332AI 4500  
EM3832AI 6600



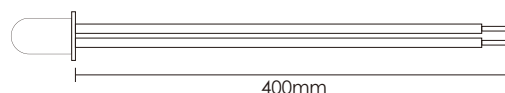
### Test button

Mounting hole 7.0mm dia



### Status indication LED

Mounting hole 6.5mm dia



Red/Green LED (EU)  
Yellow/Green LED (AU)

### Self test function (AU version):

| Key operation                | Functional Description                                                                                                                                                                           |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functional test              | Initiate a 5 seconds emergency test when press test switch                                                                                                                                       |
| Emergency duration time test | 1. Initiate a 15 hours emergency test after new battery been full charged (16 hours)<br>2. Auto-run a 15 hours emergency test every 26 weeks<br>3. Auto-run a 15 hours emergency test every year |

### Self test function (EU version):

| Key operation                | Functional Description                                                                                                                                                                            |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functional test              | 1. Initiate a 5 seconds emergency test when press test switch<br>2. Auto-run a 5 seconds function test every week                                                                                 |
| Emergency duration time test | 1. Initiate a 3 hours emergency test after new battery been full charged (24 hours)<br>2. Auto-run a 3 hours emergency test every 26 weeks<br>3. Auto-run a 3 hours emergency test every 52 weeks |

### Status indication (For AU):

| LED indication                          | Status                                                                                         | Comment                                                                 |
|-----------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Permanent green                         | System OK                                                                                      | AC mode                                                                 |
| Fast flashing yellow (1s on-1s off)     | Function test (press test switch)                                                              | Detection of emergency switching function                               |
| Slow flashing yellow (4s on-1s off)     | Duration test (Initially check, half yearly check, annually check)                             | Emergency time 90 min                                                   |
| Slow flashing yellow (4s on-1s off)     | Half yearly check, annually check OK                                                           | Keep 5 days Indicator light prompt                                      |
| Fast flashing yellow (0.5s on-0.5s off) | Luminaire failure                                                                              | Open circuit / short circuit / LED failure                              |
| Fast flashing yellow (0.5s on-0.5s off) | Battery under voltage, battery failed the test / battery is defect / Incorrect battery voltage | Battery failed the test / battery is defect / Incorrect battery voltage |
| Green and yellow off                    | DC mode                                                                                        | Battery operation (emergency mode)                                      |

### Status indication (For EU):

| LED indication                         | Status                                                             | Comment                                                                 |
|----------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|
| Permanent green                        | System OK                                                          | AC mode                                                                 |
| Fast flashing green (0.1s on-0.1s off) | Function test (press test button, weekly check)                    | Detection of emergency switching function                               |
| Slow flashing green (1s on-1s off)     | Duration test (Initially check, half yearly check, annually check) | Emergency time 3 hours                                                  |
| Permanent red                          | Luminaire failure                                                  | Open circuit / short circuit / LED failure                              |
| Slow flashing red (1s on-1s off)       | battery failure                                                    | battery failed the test / battery is defect / Incorrect battery voltage |
| Green and red off                      | DC mode                                                            | Battery operation (emergency mode)                                      |

EMC4032

# LED Emergency Light Converter

LED应急转换器



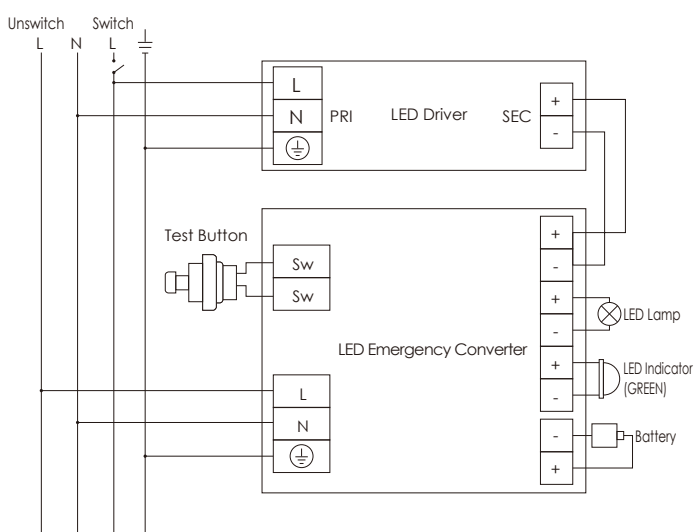
LiFePO4

## Features:

- Self contained LED emergency converter for manual testing
- Intelligent automatic recharging function
- Constant current output
- For LED modules with a forward voltage 6-60V
- 3h emergency operation
- Lithium batteries (LiFePO4)
- Over discharge protection
- Test button and charging indicator
- Converter for built-in use
- SELV equivalent
- Protection class I

- 用于手动测试的自给式LED应急转换器
- 智能自动充电功能
- 恒定输出电流
- 匹配6-60V的LED光源
- 3小时应急照明
- 锂电池(LiFePO4)
- 电池过放保护
- 测试按钮和充电指示灯
- 内装式转换器
- 符合安全特低电压标准
- 保护等级I

Product applications:

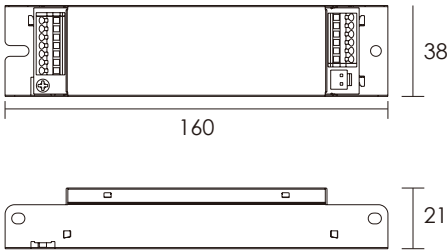


Parameters (EU Version):

|                                      |                     |
|--------------------------------------|---------------------|
| Technical Data<br>技术参数               | EMC4032 3300        |
| Rated supply voltage 额定电压            | 220-240V~           |
| Frequency 额定频率                       | 50/60Hz             |
| Input current 输入电流                   | 30mA                |
| Input power 输入功率                     | 3.5W                |
| Power factor 功率因数                    | 0.65C               |
| Response time 响应时间                   | <0.5S               |
| Charge current 充电电流                  | 280mA               |
| Recharge hours 充电时间                  | 24h*                |
| Emergency LED current 应急电流           | 67mA                |
| Emergency LED voltage 应急电压           | 6-60V               |
| Emergency LED power 应急功率             | 0.4-4W              |
| Emergency LED power time 应急时间        | 3h*                 |
| Ambient temperature ta 环境温度          | 0...+50°C           |
| Max. casing temperature tc 最大外壳温度    | 80°C                |
| Battery type 电池                      | LiFeP04 3.2V 4.5Ah* |
| Material 材质                          | SECC                |
| Dimensions LxWxH 尺寸                  | 160x38x21mm         |
| Fixing centre D 安装孔距                 | 150mm               |
| *Parameter difference for AU version |                     |
| Recharge hours 充电时间                  | 16h                 |
| Emergency LED power time 应急时间        | 1.5h                |
| Battery type 电池                      | LiFeP04 3.2V 3.3Ah  |

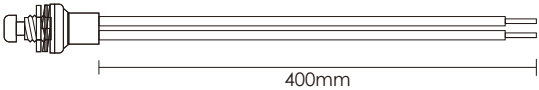


Line drawing(mm):



Test Button

Mounting hole 7.0mm dia



Status Indication LED

Mounting hole 6.5mm dia



EMLED 3/60

# LED Emergency Light Converter

LED应急转换器

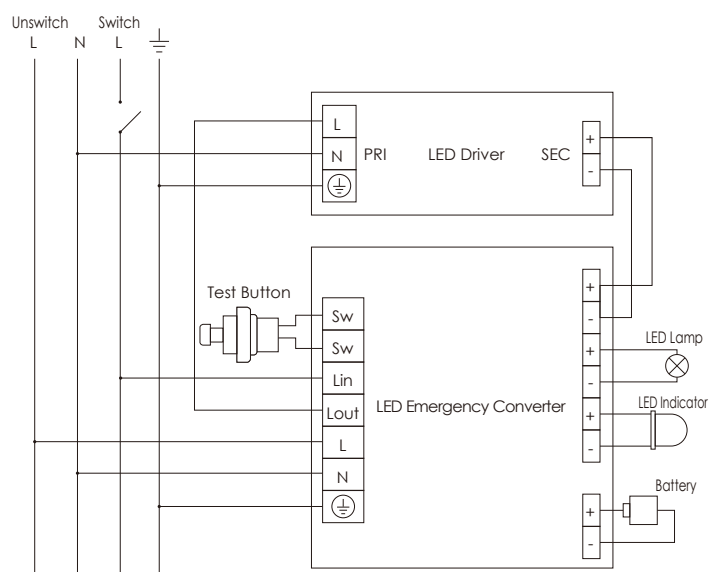


## Features:

- Self-contained LED emergency converter for manual testing
- Intelligent automatic recharging function
- Constant power output
- For LED modules with a forward voltage 6-60V
- 3 hours emergency operation
- Over discharge protection
- Test button and charging indicator
- Optional built-in or independent
- SELV equivalent

- 用于手动测试的自给式LED应急转换器
- 智能自动充电功能
- 恒定输出功率
- 匹配6-60V的LED光源
- 3小时应急照明
- 电池过放保护
- 测试按钮和充电指示灯
- 可选内装式和独立式
- 符合安全特低电压标准

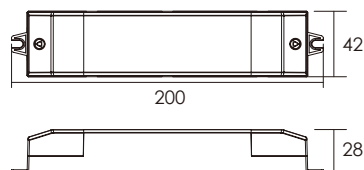
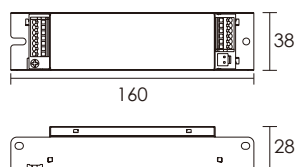
## Product applications:



## Parameters (EU Version):

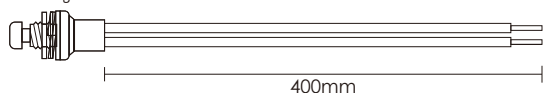
| Technical Data<br>技术参数            | EMLED3/60<br>3000             | EMLED3/60<br>4500             | EMLED3/60/I<br>3000           | EMLED3/60/I<br>4500           |
|-----------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Rated supply voltage 额定电压         | 220-240V~                     | 220-240V~                     | 220-240V~                     | 220-240V~                     |
| Frequency 额定频率                    | 50/60Hz                       | 50/60Hz                       | 50/60Hz                       | 50/60Hz                       |
| Input current 输入电流                | 40mA                          | 40mA                          | 40mA                          | 40mA                          |
| Input power 输入功率                  | 4W                            | 4W                            | 4W                            | 4W                            |
| Power factor 功率因数                 | 0.50C                         | 0.50C                         | 0.50C                         | 0.50C                         |
| Response time 响应时间                | <0.5S                         | <0.5S                         | <0.5S                         | <0.5S                         |
| Charge current 充电电流               | 200mA                         | 200mA                         | 200mA                         | 200mA                         |
| Recharge hours 充电时间               | 20h                           | 24h                           | 20h                           | 24h                           |
| Emergency LED current 应急电流        | 400-40mA                      | 600-60mA                      | 400-40mA                      | 600-60mA                      |
| Emergency LED voltage 应急电压        | 6-60V                         | 6-60V                         | 6-60V                         | 6-60V                         |
| Emergency LED power 应急功率          | 2.4W                          | 3.6W                          | 2.4W                          | 3.6W                          |
| Emergency LED power time 应急时间     | 3h                            | 3h                            | 3h                            | 3h                            |
| Ambient temperature ta 环境温度       | -25...+50°C                   | -25...+50°C                   | -25...+50°C                   | -25...+50°C                   |
| Max. casing temperature tc 最大外壳温度 | 70°C                          | 70°C                          | 70°C                          | 70°C                          |
| Battery type 电池                   | Ni-cd 36V 30Ah/Ni-MH 36V 30Ah | Ni-cd 36V 45Ah/Ni-MH 36V 45Ah | Ni-cd 36V 30Ah/Ni-MH 36V 30Ah | Ni-cd 36V 45Ah/Ni-MH 36V 45Ah |
| Material 材质                       | SECC                          | SECC                          | PC                            | PC                            |
| Dimensions LxWxH 尺寸               | 160x38x28mm                   | 160x38x28mm                   | 200x42x28mm                   | 200x42x28mm                   |
| Fixing centre D 安装孔距              | 150mm                         | 150mm                         | 190mm                         | 190mm                         |

Line drawing(mm):



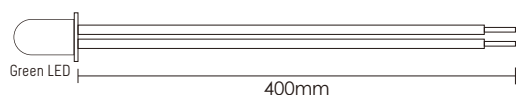
### Test Button

Mounting hole 7.0mm dia



### Status Indication LED

Mounting hole 6.5mm dia



EMLED 3/120

# LED Emergency Light Converter

LED应急转换器



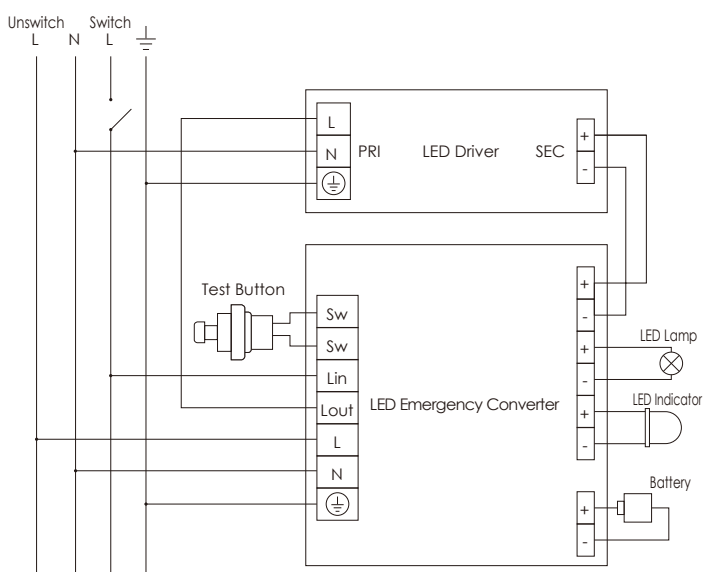
## Features:

- Self-contained LED emergency converter for manual testing
- Intelligent automatic recharging function
- Constant power output
- For LED modules with a forward voltage 60-120V
- 3 hours emergency operation
- Over discharge protection
- Test button and charging indicator
- Optional built-in or independent

## Product applications:



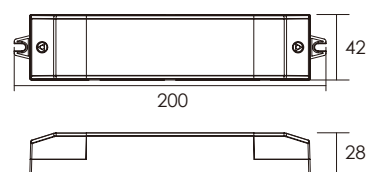
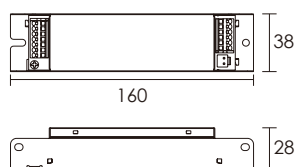
- 用于手动测试的自给式LED应急转换器
- 智能自动充电功能
- 恒定输出功率
- 匹配60 - 120V的LED光源
- 3小时应急照明
- 电池过放保护
- 测试按钮和充电指示灯
- 可选内装式和独立式



## Parameters (EU Version):

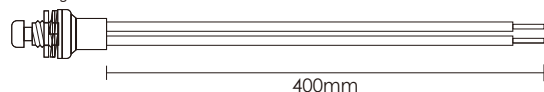
| Technical Data<br>技术参数            | EMLED3/120<br>3000                | EMLED3/120<br>4500                | EMLED3/120/I<br>3000              | EMLED3/120/I<br>4500              |
|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Rated supply voltage 额定电压         | 220-240V~                         | 220-240V~                         | 220-240V~                         | 220-240V~                         |
| Frequency 额定频率                    | 50/60Hz                           | 50/60Hz                           | 50/60Hz                           | 50/60Hz                           |
| Input current 输入电流                | 40mA                              | 40mA                              | 40mA                              | 40mA                              |
| Input power 输入功率                  | 4W                                | 4W                                | 4W                                | 4W                                |
| Power factor 功率因数                 | 0.50C                             | 0.50C                             | 0.50C                             | 0.50C                             |
| Response time 响应时间                | <0.5S                             | <0.5S                             | <0.5S                             | <0.5S                             |
| Charge current 充电电流               | 200mA                             | 200mA                             | 200mA                             | 200mA                             |
| Recharge hours 充电时间               | 20h                               | 24h                               | 20h                               | 24h                               |
| Emergency LED current 应急电流        | 40-20mA                           | 60-30mA                           | 40-20mA                           | 60-30mA                           |
| Emergency LED voltage 应急电压        | 60-120V                           | 60-120V                           | 60-120V                           | 60-120V                           |
| Emergency LED power 应急功率          | 2.4W                              | 3.6W                              | 2.4W                              | 3.6W                              |
| Emergency LED power time 应急时间     | 3h                                | 3h                                | 3h                                | 3h                                |
| Ambient temperature ta 环境温度       | -25...+50°C                       | -25...+50°C                       | -25...+50°C                       | -25...+50°C                       |
| Max. casing temperature tc 最大外壳温度 | 70°C                              | 70°C                              | 70°C                              | 70°C                              |
| Battery type 电池                   | Ni-cd 3.6V 3.0Ah/Ni-MH 3.6V 3.0Ah | Ni-cd 3.6V 4.5Ah/Ni-MH 3.6V 4.5Ah | Ni-cd 3.6V 3.0Ah/Ni-MH 3.6V 3.0Ah | Ni-cd 3.6V 4.5Ah/Ni-MH 3.6V 4.5Ah |
| Material 材质                       | SECC                              | SECC                              | SECC                              | SECC                              |
| Dimensions LxWxH 尺寸               | 160x38x28mm                       | 160x38x28mm                       | 200x42x28mm                       | 200x42x28mm                       |
| Fixing centre D 安装孔距              | 150mm                             | 150mm                             | 190mm                             | 190mm                             |

Line drawing(mm):



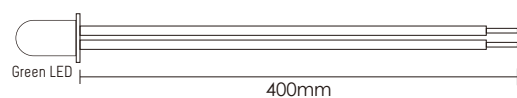
### Test Button

Mounting hole 7.0mm dia



### Status Indication LED

Mounting hole 6.5mm dia



EC-LP-300D

# Emergency Light Inverter

应急逆变器

New  
product

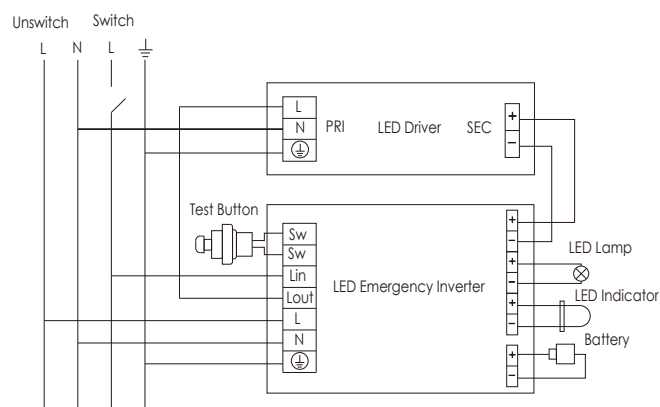


 Li-ion

## Features:

- Intelligent automatic recharging function
- Lithium Batteries (Li-ion)
- No-maintained operation
- DALI interface for controlled testing and monitoring
- Suitable for LED lamp with internal driver
- Output Voltage 220V
- 90 min Emergency Operation
- Test button and charging indicator
- Protection class II
- 智能自动充电功能
- 锂电池 (Li-ion)
- 非持续型
- 通过DALI接口控制测试和监控功能
- 适用具有内置驱动器的LED光源或灯具
- 220V输出电压
- 90分钟应急照明
- 测试按钮和充电指示灯
- 保护等级II

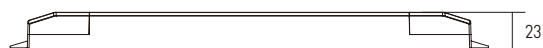
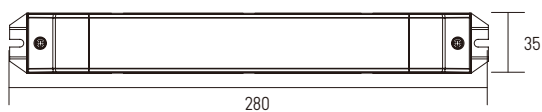
## Product applications:



## Parameters (EU Version):

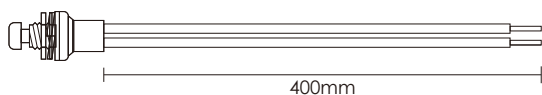
| Technical Data<br>技术参数            | EC-LP-300D         |
|-----------------------------------|--------------------|
| Rated supply voltage 额定电压         | 220-240V~          |
| Frequency 额定频率                    | 50/60Hz            |
| Input current 输入电流                | 80mA               |
| Input power 输入功率                  | 11W                |
| Power factor 功率因数                 | 0.80C              |
| Response time 响应时间                | <0.5s              |
| Charge current 充电电流               | 280mA              |
| Recharge hours 充电时间               | 10h                |
| Emergency LED current 应急电流        | 0-130mA            |
| Emergency LED voltage 应急电压        | 220V               |
| Emergency LED power 应急功率          | 2-30W              |
| Emergency LED power time 应急时间     | 1.5h               |
| Ambient temperature ta 环境温度       | 0...+50°C          |
| Max. casing temperature tc 最大外壳温度 | 90°C               |
| Battery type 电池                   | Li-ion 22.2V 2.5Ah |
| Material 材质                       | PC                 |
| Dimensions LxWxH 尺寸               | 280x35x23mm        |
| Fixing centre D 安装孔距              | 267mm              |

## Line drawing(mm):



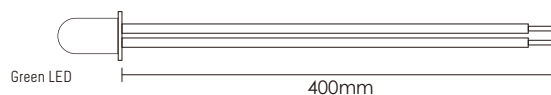
## Test Button

Mounting hole 7.0mm dia



## Status Indication LED

Mounting hole 6.5mm dia



EC-LP Sereis

# Emergency Light Inverter

应急逆变器



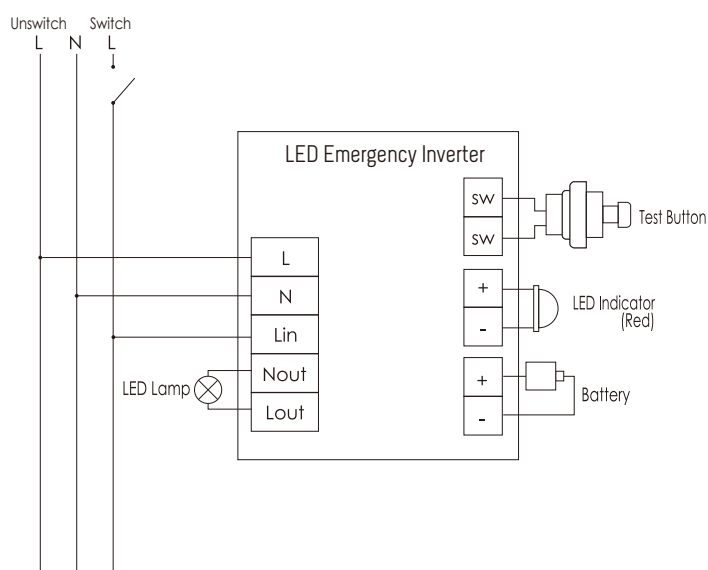
LiFePO4

## Features:

- Self-contained LED emergency inverter for manual testing
- Intelligent automatic recharging function
- Suitable for LED lamp with internal driver, e.g. LED bulb, 3-10W LED tube & T5/T8 3-10W
- Emergency power keep working for 50%/100%
- Output Voltage 230V
- Low profile casing (21 x 30 mm cross-section)
- 3h emergency operation
- LED charge status display
- Over discharge protection
- Test button and charging indicator
- Optional built-in or independent
- Protection class II

- 用于手动测试的自给式LED应急逆变器
- 智能自动充电功能
- 适用具有内置驱动器的LED光源，如3-10W LED球泡灯 T5/T8 3-10W LED灯管
- 应急功率为正常工作功率的50%/100%
- 230V输出电压
- 薄型外壳（横截面积21x30mm）
- 3小时应急照明
- LED充电状态指示
- 电池过放保护
- 测试按钮和充电指示灯
- 可选内装式和独立式
- 保护等级II

Product applications:

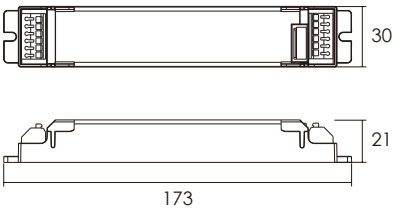


Parameters (EU Version):

| Technical Data<br>技术参数               | EC-LP-100 220       |
|--------------------------------------|---------------------|
| Rated supply voltage 额定电压            | 220-240V~           |
| Frequency 额定频率                       | 50/60Hz             |
| Input current 输入电流                   | 50mA                |
| Input power 输入功率                     | 7.5W                |
| Power factor 功率因数                    | 0.70C               |
| Response time 响应时间                   | <0.5S               |
| Charge current 充电电流                  | 280mA               |
| Recharge hours 充电时间                  | 16h*                |
| Emergency LED voltage 应急电压           | DC220V              |
| Emergency LED power 应急功率             | 3-10W               |
| Emergency LED power time 应急时间        | 3h*                 |
| Ambient temperature ta 环境温度          | 0...+55°C           |
| Max. casing temperature tc 最大外壳温度    | 80°C                |
| Battery type 电池                      | LiFeP04 12.8V 3.3Ah |
| Material 材质                          | PC                  |
| Dimensions LxWxH 尺寸                  | 173x30x21mm         |
| Fixing centre D 安装孔距                 | 164mm               |
| *Parameter difference for AU version |                     |
| Recharge hours 充电时间                  | 16h                 |
| Emergency LED power time 应急时间        | 2h                  |

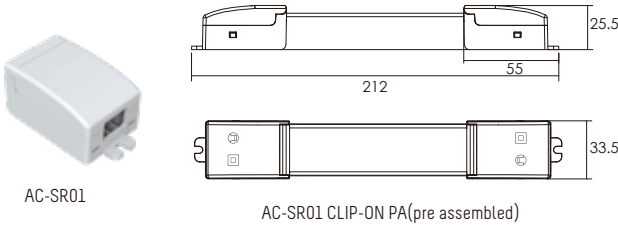


Line drawing(mm):



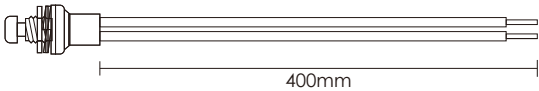
Optional accessories

Strain relief:



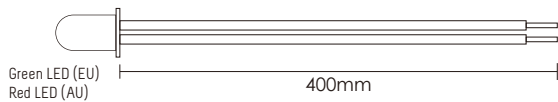
Test Button

Mounting hole 7.0mm dia



Status Indication LED

Mounting hole 6.5mm dia



ECC-SP-20

# Emergency Light LED Driver

应急驱动器

New  
product



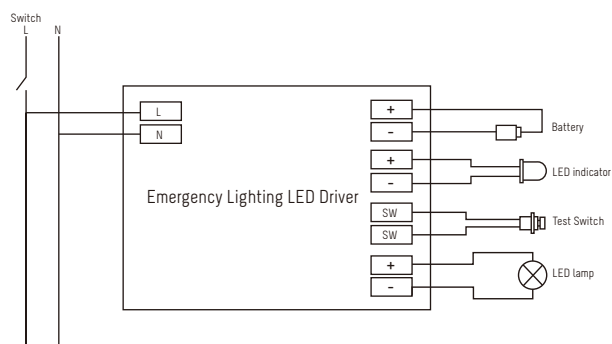
 LiFePO4

## Features:

- Self-contained emergency lighting LED driver for manual testing
- Intelligent automatic recharging function
- Constant current mode
- For LED modules with a forward voltage 3V
- Ultra small size suitable for use in limit space
- 3h emergency operation
- Lithium batteries (LiFePO4)
- Over discharge protection
- Test button and charging indicator
- SELV equivalent
- Protection class II

- 用于手动测试的自给式应急驱动器
- 智能自动充电功能
- 恒定输出电流
- 匹配3V的LED光源
- 超小尺寸适合在空间有限的灯具内使用
- 3小时应急照明
- 锂电池(LiFePO4)
- 电池过放保护
- 测试按钮和充电指示灯
- 符合安全特低电压标准
- 保护等级II

Product applications:



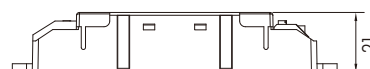
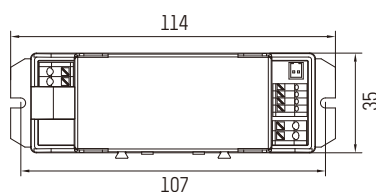
## Parameters (EU Version):

| Technical Data<br>技术参数            | ECC-SP-20                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------|
| Rated supply voltage 额定电压         | 220-240V~                                                                     |
| Frequency 额定频率                    | 50/60Hz                                                                       |
| Input current 输入电流                | 15mA                                                                          |
| Input power 输入功率                  | 2W                                                                            |
| Power factor 功率因数                 | 0.50C                                                                         |
| Response time 响应时间                | <0.5S                                                                         |
| Charge current 充电电流               | 245mA                                                                         |
| Recharge hours 充电时间               | 16h*                                                                          |
| Emergency LED current 应急电流        | 700mA                                                                         |
| Emergency LED voltage 应急电压        | 2.5-3.5V                                                                      |
| Emergency LED power 应急功率          | 2.1W                                                                          |
| Emergency LED power time 应急时间     | 3h*                                                                           |
| Ambient temperature ta 环境温度       | 0...+50°C                                                                     |
| Max. casing temperature tc 最大外壳温度 | 70°C                                                                          |
| Battery type 电池                   | LiFePO4 3.2V 3.0Ah                                                            |
| Material 材质                       | PC                                                                            |
| Dimensions LxWxH 尺寸               | Barrey vertical placed: 114x61x51mm Barrey horizontally placed: 114x87.4x51mm |
| Fixing centre D 安装孔距              | 107mm                                                                         |

### \*Parameter difference for AU version

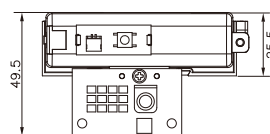
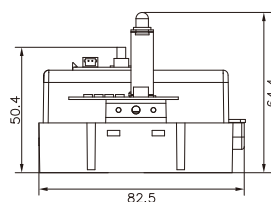
|                               |      |
|-------------------------------|------|
| Recharge hours 充电时间           | 16h  |
| Emergency LED power time 应急时间 | 1.5h |

Line drawing(mm):



## Optional Accessories

### Battery Box



With flexible design, the battery box can be installed vertically or horizontally, suitable for used in luminaires with limited internal space.



Barrey vertical placed



Barrey horizontally placed

## LCM-45 EC Series

## Combined Emergency Light LED Driver

集成应急照明LED驱动器

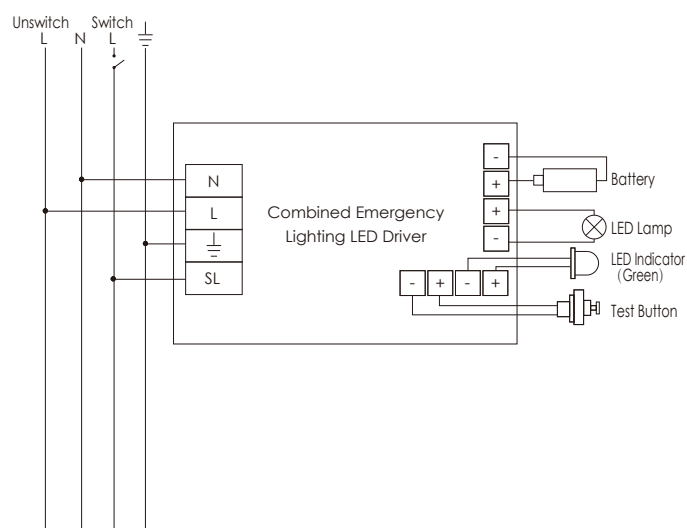

 LiFePO4

## Features:

- Combined emergency LED driver for manual testing
- For self-contained emergency lighting
- Configurable constant current output via dip-switch
- Flicker-free
- For LED modules with a forward voltage 15-48V
- LED charge status display
- Lithium batteries (LiFePO4)
- Constant power output in emergency mode
- Overcharge/overdischarge protection
- Test button and charging indicator
- Protections: opencircuit, shortcircuit, overload, overtemperature
- SELV equivalent
- For use in luminaires of protection class I
- Protection class I

- 具有手动测试功能的组合式应急LED驱动
- 适用于自给式应急照明
- 通过拨码开关选择输出电流
- 无频闪
- 匹配15-48V的LED光源
- 锂电池(LiFePO4)
- 应急模式下恒功率输出
- 过度充电/放电保护
- 测试按钮和充电指示灯
- 输出开路、短路、过载和过温度保护
- 符合安全特低电压标准
- 适用I类灯具
- 保护等级I

## Product applications:



Parameters:

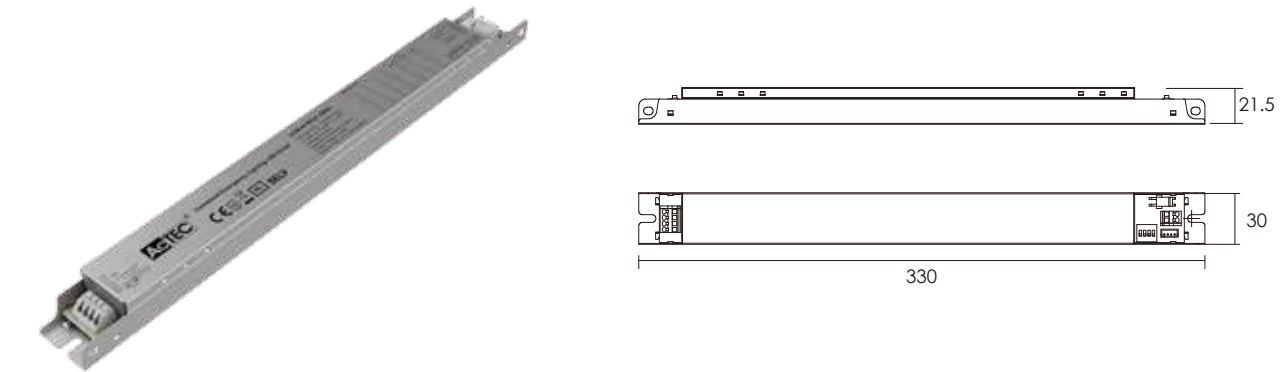
Technical Data 技术参数

| Model No.<br>型号 | Input voltage<br>额定电压<br>(V) | Max. output<br>功率<br>(W) | Output current<br>输出电流<br>(mA) | Output voltage<br>输出电压<br>(V) | Power factor<br>功率因数<br>(λ) | Efficiency full load<br>效率<br>(%) | Ambient temperature<br>环境温度<br>ta (°C) | Max. casing temperature<br>最大外壳温度<br>tc (°C) | Isolation<br>隔离 | Dimensions<br>LxWxH<br>尺寸<br>(mm) | Weight<br>重量<br>(g) |
|-----------------|------------------------------|--------------------------|--------------------------------|-------------------------------|-----------------------------|-----------------------------------|----------------------------------------|----------------------------------------------|-----------------|-----------------------------------|---------------------|
| LCM-45          | 220-240                      | 35                       | 700                            | 15-48                         | 0.95                        | 84                                | 0...+50                                | 85                                           | SELV            | 330x30x21.5                       | 245                 |
|                 |                              | 37.5                     | 750                            | 15-48                         | 0.95                        | 84                                |                                        |                                              |                 |                                   |                     |
|                 |                              | 40                       | 800                            | 15-48                         | 0.95                        | 84                                |                                        |                                              |                 |                                   |                     |
|                 |                              | 42.5                     | 850                            | 15-48                         | 0.95                        | 84                                |                                        |                                              |                 |                                   |                     |
|                 |                              | 45                       | 900                            | 15-48                         | 0.95                        | 85                                |                                        |                                              |                 |                                   |                     |
|                 |                              | 45                       | 950                            | 15-48                         | 0.95                        | 85                                |                                        |                                              |                 |                                   |                     |
|                 |                              | 45                       | 1000                           | 15-45                         | 0.95                        | 85                                |                                        |                                              |                 |                                   |                     |
|                 |                              | 45                       | 1050                           | 15-43                         | 0.95                        | 85                                |                                        |                                              |                 |                                   |                     |

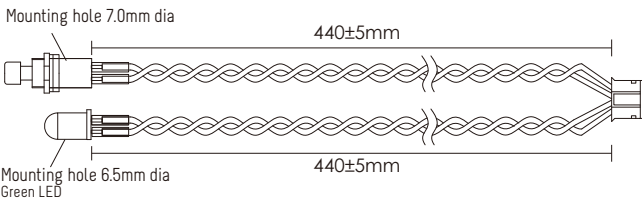
Specific Technical Data 技术参数详情

| Type 产品型号                     | LCM-45 EC23          | LCM-45 EC30          | LCM-45 EC32          | LCM-45 EC40          |
|-------------------------------|----------------------|----------------------|----------------------|----------------------|
| Response time 响应时间            | <0.5S                | <0.5S                | <0.5S                | <0.5S                |
| Charge current 充电电流           | 280mA                | 280mA                | 280mA                | 280mA                |
| Recharge hours 充电时间           | 16h                  | 16h                  | 16h                  | 16h                  |
| Emergency LED current 应急电流    | 230-47mA             | 300-62mA             | 320-66mA             | 400-83mA             |
| Emergency LED voltage 应急电压    | 15-48V               | 15-48V               | 15-48V               | 15-48V               |
| Emergency LED power 应急功率      | 2.3W                 | 3.0W                 | 3.2W                 | 4.0W                 |
| Emergency LED power time 应急时间 | 1.5h                 | 1.5h                 | 1.5h                 | 1.5h                 |
| Battery type 电池               | LiFePO4 3.2V 3300mAh | LiFePO4 3.2V 4500mAh | LiFePO4 3.2V 4500mAh | LiFePO4 3.2V 6600mAh |

Line drawing(mm):



Test Button & Status Indication LED



EMLED 1W/2W

EMLED 1W/2W DALI

# LED Emergency Light

LED应急灯



Black version available

LiFePO4

## Features:

- Emergency lighting with DALI interface for controlled testing and monitoring (DALI version)
- Recessed installation
- Non-maintained operation
- Intelligent automatic recharging function
- Ultra low standby consumption
- 3 hours emergency operation
- Lithium batteries (LiFePO4)
- LED charge status display
- Easy installation

- 具有DALI接口和自动测试功能的应急照明 (DALI版本)
- 嵌入式安装
- 非持续型
- 智能自动充电功能
- 超低待机功率
- 3小时应急照明
- 锂电池(LiFePO4)
- LED充电状态指示
- 安装便捷

## Product applications:



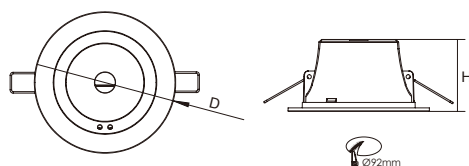
## Parameters (EU Version):

| Model No. 型号                | EMLED 1W*          | EMLED 2W*          | EMLED 1W DALI*                  | EMLED 2W DALI*                  |
|-----------------------------|--------------------|--------------------|---------------------------------|---------------------------------|
| Rated supply voltage 额定电压   | 220-240V~          | 220-240V~          | 220-240V~                       | 220-240V~                       |
| Frequency 额定频率              | 50/60Hz            | 50/60Hz            | 50/60Hz                         | 50/60Hz                         |
| Input current 输入电流          | 20mA               | 30mA               | 30mA                            | 30mA                            |
| Input power 输入功率            | Max. 3W            | Max. 5W            | 1.5W                            | 2.0W                            |
| Response time 响应时间          | <0.5S              | <0.5S              | <0.5S                           | <0.5S                           |
| Charge current 充电电流         | 270mA              | 330mA              | 120mA                           | 270mA                           |
| Charge time 充电时间            | 16h*               | 16h*               | 16h*                            | 16h*                            |
| Discharge duration 放电时间     | 3h*                | 3h*                | 3h*                             | 3h*                             |
| Emergency LED power 应急功率    | 0.8W*              | 1.8W*              | 0.8W*                           | 1.8W*                           |
| CCT 色温                      | 5700K              | 5700K              | 5700K                           | 5700K                           |
| CRI 显色指数                    | 82                 | 82                 | 82                              | 82                              |
| Field angles 光束角度           | 150°               | 150°               | 150°                            | 150°                            |
| Lumens 光通量                  | 120lm*             | 240lm*             | 120lm*                          | 240lm*                          |
| Test facility 测试方式          | Manual test        | Manual test        | DALI interface & automatic test | DALI interface & automatic test |
| Operation mode 应急模式         | Non-Maintained     | Non-Maintained     | Non-Maintained                  | Non-Maintained                  |
| IP rating IP等级              | IP 20              | IP 20              | IP 20                           | IP 20                           |
| Protection class 绝缘等级       | Class II           | Class II           | Class II                        | Class II                        |
| Material 材料                 | PC                 | PC                 | PC                              | PC                              |
| Ambient temperature ta 环境温度 | 0...+40°C          | 0...+40°C          | 0...+40°C                       | 0...+40°C                       |
| Battery type 电池             | LiFePO4 3.2V 1.5Ah | LiFePO4 3.2V 3.3Ah | LiFePO4 3.2V 1.5Ah              | LiFePO4 3.2V 3.3Ah              |
| Cut out 开孔尺寸                | Ø92mm              | Ø92mm              | Ø92mm                           | Ø92mm                           |
| Dimensions DxH 尺寸           | Ø110x49mm          | Ø110x56mm          | Ø110x49mm                       | Ø110x56mm                       |

### \*Parameter difference for AU version

| Model No. 型号                  | EMLED 2W                  | EMLED 3W                  | EMLED 2W DALI             | EMLED 3W DALI             |
|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Charge time 充电时间              | 16h                       | 16h                       | 16h                       | 16h                       |
| Discharge duration 放电时间       | 3h                        | 3h                        | 3h                        | 3h                        |
| Emergency LED power 应急功率      | 1.5W                      | 2.5W                      | 1.2W                      | 2.5W                      |
| Lumens 光通量                    | 200lm                     | 300lm                     | 200lm                     | 300lm                     |
| Emergency classification 应急等级 | C0/C90: D40 (AS/NZS 2293) | C0/C90: D63 (AS/NZS 2293) | C0/C90: D40 (AS/NZS 2293) | C0/C90: D63 (AS/NZS 2293) |

### Line drawing(mm):



### Optional accessories:

Surface Mount Box: SMB-Ø165/103

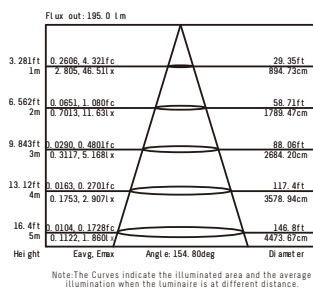
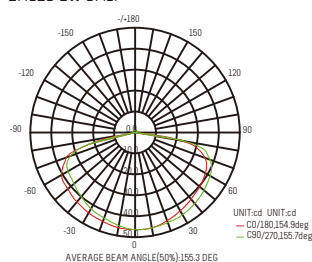


Conversion Plate: PLATE-Ø140/103-WH

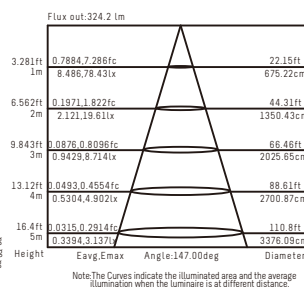
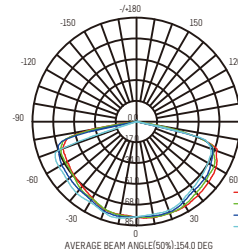


### Photometric data:

EMLED 1W  
EMLED 1W DALI



EMLED 2W  
EMLED 2W DALI



LED Emergency Light

EL-D1-10 EL-D1-30

EL-D1-10D EL-D1-30D

# LED Emergency Light

LED应急灯



Black version available



## Features:

- Emergency lighting with DALI interface for controlled testing and monitoring (DALI version)
- Small compact design for use in limited space
- Recessed installation, small size ceiling hole  $\varnothing 40\text{mm}$
- Articulated control gear for easy installation
- An ideal solution for ceiling constructions with void heights as small as 130 mm
- Non-maintained operation
- Ultra low standby consumption
- Intelligent automatic recharging function
- 3 hours emergency operation
- Lithium batteries (LiFePO4)
- LED charge status display

- 具有DALI接口和自动测试功能的应急照明 (DALI版本)
- 小巧紧凑的设计，适用于有限的空间
- 嵌入式安装，开孔尺寸小至 $\varnothing 40\text{mm}$
- 铰接式控制装置，便于安装
- 为天花板结构的空隙高度小到130毫米提供解决方案
- 非持续型
- 超低待机功率
- 智能自动充电功能
- 3小时应急照明
- 锂电池(LiFePO4)
- LED充电状态指示

## Product applications:



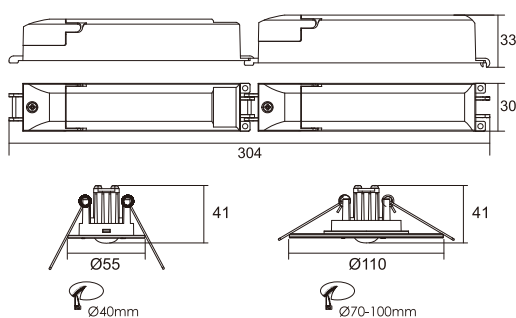
## Parameters (EU Version):

|                             |                    |                    |                                 |                                 |
|-----------------------------|--------------------|--------------------|---------------------------------|---------------------------------|
| Model No. 型号                | EL-D1-10           | EL-D1-20*          | EL-D1-10D                       | EL-D1-20D*                      |
| Rated supply voltage 额定电压   | 220-240V~          | 220-240V~          | 220-240V~                       | 220-240V~                       |
| Frequency 额定频率              | 50/60Hz            | 50/60Hz            | 50/60Hz                         | 50/60Hz                         |
| Input current 输入电流          | 15mA               | 25mA               | 30mA                            | 30mA                            |
| Input power 输入功率            | Max. 2.5W          | Max. 3W            | 1.5W                            | 2.0W                            |
| Response time 响应时间          | <0.5S              | <0.5S              | <0.5S                           | <0.5S                           |
| Charge current 充电电流         | 150mA              | 260mA              | 120mA                           | 270mA                           |
| Charge time 充电时间            | 16h*               | 16h*               | 16h*                            | 16h*                            |
| Discharge duration 放电时间     | 3h*                | 3h*                | 3h*                             | 3h*                             |
| Emergency LED power 应急功率    | 1.0W*              | 2.0W*              | 1W*                             | 2.0W*                           |
| CCT 色温                      | 5700K              | 5700K              | 5700K                           | 5700K                           |
| CRI 显色指数                    | 82                 | 82                 | 82                              | 82                              |
| Field angles 光束角度           | 150°               | 150°               | 150°                            | 150°                            |
| Lumens 光通量                  | 120lm*             | 240lm*             | 120lm*                          | 240lm*                          |
| Test facility 测试方式          | Manual test        | Manual test        | DALI interface & automatic test | DALI interface & automatic test |
| Operation mode 应急模式         | Non-Maintained     | Non-Maintained     | Non-Maintained                  | Non-Maintained                  |
| IP rating IP等级              | IP 20              | IP 20              | IP 20                           | IP 20                           |
| Protection class 绝缘等级       | Class II           | Class II           | Class II                        | Class II                        |
| Material 材料                 | PC                 | PC                 | PC                              | PC                              |
| Ambient temperature ta 环境温度 | 0...+40°C          | 0...+40°C          | 0...+40°C                       | 0...+40°C                       |
| Battery type 电池             | LiFePO4 3.2V 1.5Ah | LiFePO4 3.2V 3.6Ah | LiFePO4 3.2V 1.5Ah              | LiFePO4 3.2V 3.6Ah              |
| Cut out 开孔尺寸                | Ø40mm/Ø70-100mm    | Ø40mm/Ø70-100mm    | Ø40mm/Ø70-100mm                 | Ø40mm/Ø70-100mm                 |
| Dimensions DxH 尺寸           | Ø55x41mm/Ø110x41mm | Ø55x41mm/Ø110x41mm | Ø55x41mm/Ø110x41mm              | Ø55x41mm/Ø110x41mm              |

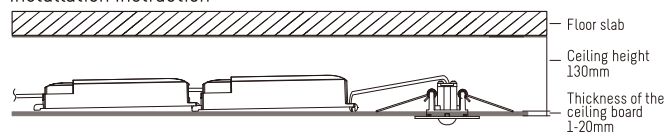
### \*Parameter difference for AU version

|                               |                           |                           |                           |                           |
|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Model No. 型号                  | /                         | EL-D1-30                  | /                         | EL-D1-30D                 |
| Charge time 充电时间              | 16h                       | 16h                       | 16h                       | 16h                       |
| Discharge duration 放电时间       | 1.5h                      | 1.5h                      | 1.5h                      | 1.5h                      |
| Emergency LED power 应急功率      | 1.2W                      | 2.5W                      | 1.2W                      | 2.5W                      |
| Lumens 光通量                    | 150lm                     | 300lm                     | 150lm                     | 500lm                     |
| Emergency classification 应急等级 | C0/C90: D40 (AS/NZS 2293) | C0/C90: D63 (AS/NZS 2293) | C0/C90: D40 (AS/NZS 2293) | C0/C90: D40 (AS/NZS 2293) |

### Line drawing(mm):

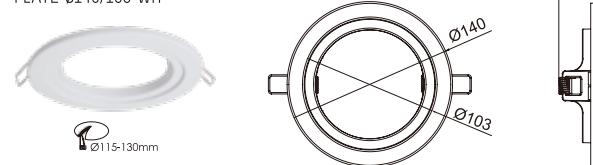


### Installation Instruction



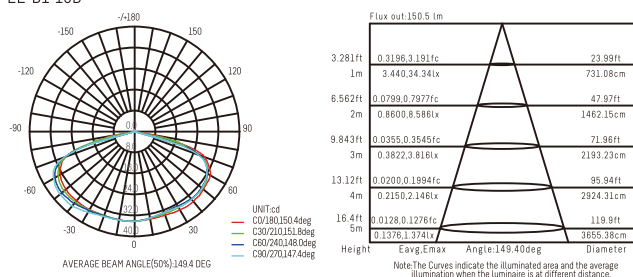
### Optional accessories

PLATE-Ø140/103-WH

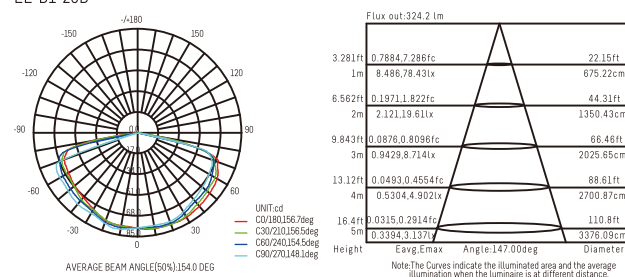


### Photometric data:

EE-D1-10  
EE-D1-10D



EE-D1-20  
EE-D1-20D



LED Emergency Light

EL-F1-40

EL-F1-40D

# LED Emergency Flood Light

LED应急投光灯



Black version available



## Features:

- Emergency lighting with DALI interface for controlled testing and monitoring (DALI version)
- Wall mounting
- Non-maintained operation
- Intelligent automatic recharging function
- Ultra low stanby consumption
- 3 hours emergency operation
- Lithium batteries (LiFePO4)
- LED charge status display
- Easy installation

- 具有DALI接口和自动测试功能的应急照明 (DALI版本)
- 墙装
- 非持续型
- 智能自动充电功能
- 超低待机功率
- 3小时应急照明
- 锂电池(LiFePO4)
- LED充电状态指示.
- 安装便捷

Product applications:



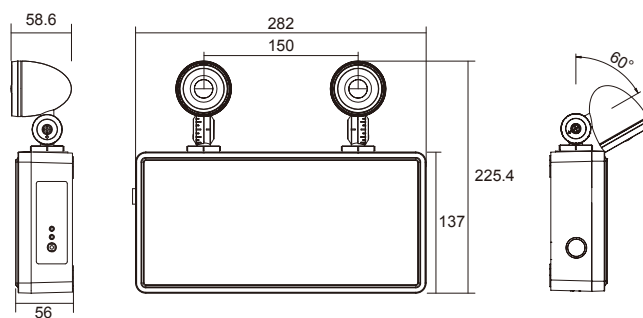
## Parameters (EU Version):

|                             |                     |                                 |
|-----------------------------|---------------------|---------------------------------|
| Model No. 型号                | EL-F1-40            | EL-F1-40D                       |
| Rated supply voltage 额定电压   | 220-240V            | 220-240V                        |
| Frequency 额定频率              | 50/60Hz             | 50/60Hz                         |
| Input current 输入电流          | 30mA                | 25mA                            |
| Input power 输入功率            | Max. 5W             | 3.0W*                           |
| Response time 响应时间          | <0.5s               | <0.5s                           |
| Charge current 充电电流         | 450mA               | 280mA*                          |
| Charge time 充电时间            | 16h*                | 16h*                            |
| Discharge duration 放电时间     | 3h*                 | 3h*                             |
| Emergency LED power 应急功率    | 4.0W (2x2W)         | 4.0W(2x2W)                      |
| CCT 色温                      | 5700K               | 5700K                           |
| CRI 显色指数                    | 82                  | 82                              |
| Field angles 光束角度           | 150°                | 150°                            |
| Lumens 光通量                  | 500lm (2x250lm)     | 500lm(2x250lm)                  |
| Test facility 测试方式          | Manual test         | DALI interface & automatic test |
| Operation mode 应急模式         | Non-maintained      | Non-maintained                  |
| IP rating IP 等级             | IP20                | IP20                            |
| Protection class 绝缘等级       | Class II            | Class II                        |
| Material 材料                 | PC                  | PC                              |
| Ambient temperature ta 环境温度 | 0 ...+40°C          | 0 ...+40°C                      |
| Battery type 电池             | LiFePO4 3.2V 6.6Ah* | LiFePO4 6.4V 3.6Ah*             |
| Dimensions LxWxH 尺寸         | 282x56x225.4mm      | 282x56x225.4mm                  |

### \*Parameter difference for AU version

|                         |                    |                    |
|-------------------------|--------------------|--------------------|
| Input power 输入功率        | /                  | 2.0W               |
| Charge current 充电电流     | /                  | 120mA              |
| Charge time 充电时间        | 16h                | 16h                |
| Discharge duration 放电时间 | 1.5h               | 1.5h               |
| Battery type 电池         | LiFePO4 3.2V 3.6Ah | LiFePO4 6.4V 1.5Ah |

Line drawing(mm):



EE-A1-12 30M EE-A2-12 30M  
EE-A1-12D 30M EE-A2-12D 30M

## Emergency Exit Sign

应急疏散指示灯



EE-A1-12 30M  
EE-A1-12D 30M



Black version available



EE-A2-12 30M  
EE-A2-12D 30M



Black version available



### Features:

- DALI interface & automatic test (DALI version)
- Wall or surface mounting, recessed installation options
- Two side fitting for pictorial legends
- Intelligent automatic recharging function
- 3 hour emergency operation
- Lithium batteries (LiFePO4)
- LED charge status display
- Test button for test function
- Easy installation

- 具有DALI接口和自动测试功能 (DALI版本)
- 墙装或吸顶式安装，嵌入式安装
- 双面导光指示
- 智能自动充电功能
- 3小时应急照明
- 锂电池(LiFePO4)
- LED充电状态指示
- 测试按钮检测功能
- 安装便捷

### Product applications:



## Parameters (EU Version):

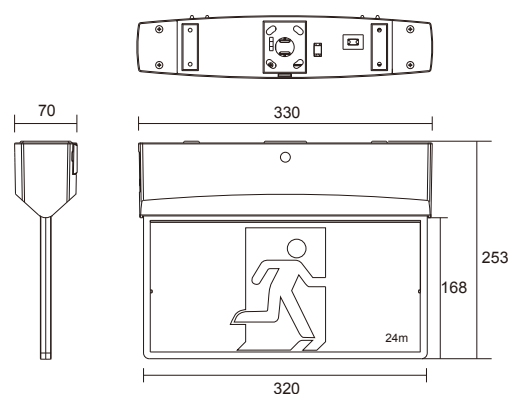
| Moneel No. 型号               | EE-A1-12 30M*<br>(Surface mounting) | EE-A2-12 30M*<br>(Recessed installation) | EE-A1-12D 30M*<br>(Surface mounting) | EE-A2-12D 30M*<br>(Recessed installation) |
|-----------------------------|-------------------------------------|------------------------------------------|--------------------------------------|-------------------------------------------|
| Rated supply voltage 额定电压   | 220-240VAC 50/60Hz                  | 220-240VAC 50/60Hz                       | 220-240VAC 50/60Hz                   | 220-240VAC 50/60Hz                        |
| Input power 输入功率            | Max. 4.5W                           | Max. 4.5W                                | Max. 3.6W                            | Max. 3.0W                                 |
| Response time 响应时间          | <0.5s                               | <0.5s                                    | <0.5s                                | <0.5s                                     |
| Charge current 充电电流         | 150mA                               | 150mA                                    | 260mA*                               | 260mA*                                    |
| Charge time 充电时间            | 16h*                                | 16h*                                     | 16h*                                 | 16h*                                      |
| Discharge duration 放电时间     | 3h*                                 | 3h*                                      | 3h*                                  | 3h*                                       |
| Emergency LED power 应急功率    | 1.2W                                | 1.2W                                     | 1.2W                                 | 1.2W                                      |
| Viewing distance 可视距离       | 30m*                                | 30m*                                     | 30m*                                 | 30m*                                      |
| Test facility 测试方式          | Manual test                         | Manual test                              | DALI interface & automatic test      | DALI interface & automatic test           |
| Operation mode 应急模式         | Maintained                          | Maintained                               | Maintained                           | Maintained                                |
| IP rating IP等级              | IP20                                | IP20                                     | IP20                                 | IP20                                      |
| Protection class 绝缘等级       | Class II                            | Class II                                 | Class II                             | Class II                                  |
| Material 材料                 | housing: PC, diffuser:PMMA          | housing: PC, diffuser:PMMA               | housing: PC, diffuser:PMMA           | housing: PC, diffuser:PMMA                |
| Ambient temperature ta 环境温度 | 0 ...+40°C                          | 0 ...+40°C                               | 0 ...+40°C                           | 0 ...+40°C                                |
| Battery type 电池             | LiFePO4 3.2V 1.5Ah                  | LiFePO4 3.2V 1.5Ah                       | LiFePO4 3.2V 3.3Ah*                  | LiFePO4 3.2V 3.3Ah*                       |
| Cut out 开孔尺寸                | N/A                                 | 330x72mm                                 | N/A                                  | 330x72mm                                  |
| Dimensions LxWxH 尺寸         | 330 x 70 x 253 mm                   | 365 x 95 x 221.6 mm                      | 330 x 70 x 253 mm                    | 365 x 95 x 221.6 mm                       |

### \* Parameters difference for AU version

| Moneel No. 型号                 | EE-A1-12 24M<br>(Surface mounting) | EE-A2-12 24M<br>(Recessed installation) | EE-A1-12D 24M<br>(Surface mounting) | EE-A2-12D 24M<br>(Recessed installation) |
|-------------------------------|------------------------------------|-----------------------------------------|-------------------------------------|------------------------------------------|
| Charge current 充电电流           | /                                  | /                                       | 120mA                               | 120mA                                    |
| Charge time 充电时间              | 16h                                | 16h                                     | 16h                                 | 16h                                      |
| Discharge duration 放电时间       | 1.5h                               | 1.5h                                    | 1.5h                                | 1.5h                                     |
| Viewing distance 可视距离         | 24m                                | 24m                                     | 24m                                 | 24m                                      |
| Emergency classification 应急等级 | C0/C90:E63                         | C0/C90:E63                              | C0/C90:E63                          | C0/C90:E63                               |
| Battery type 电池               | /                                  | /                                       | LiFePO4 3.2V 1.5Ah                  | LiFePO4 3.2V 1.5Ah                       |

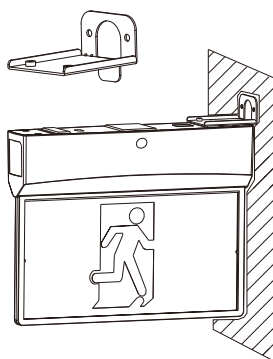
## EE-A1-12 / EE-A1-12D 30M (Surface mounting)

Line drawing(mm):

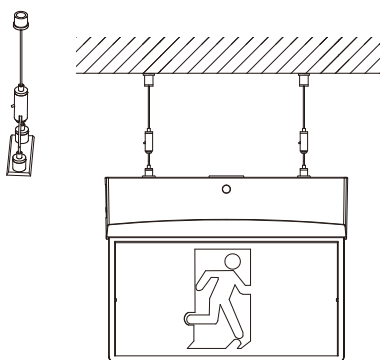


### Optional accessories

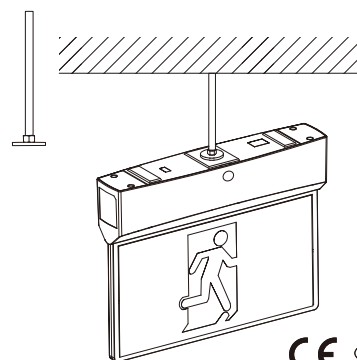
Wall mounting:



Wire installed:



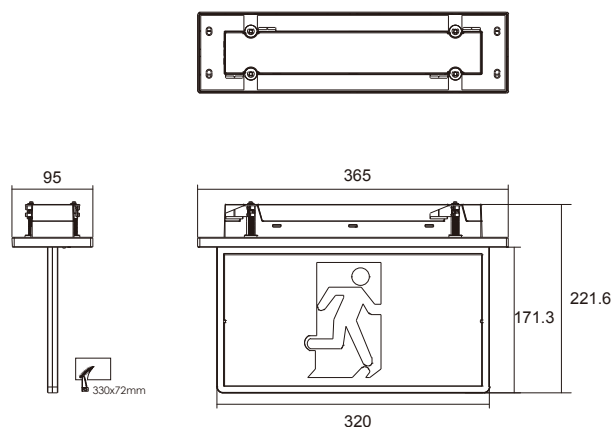
Rod installed:



Emergency Exit Sign

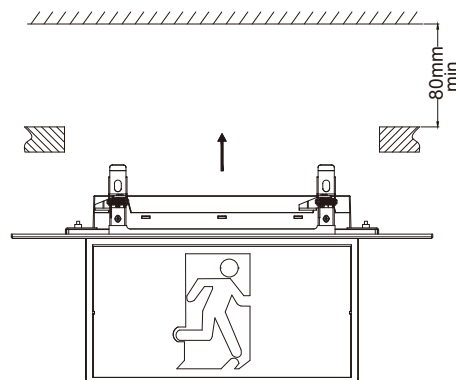
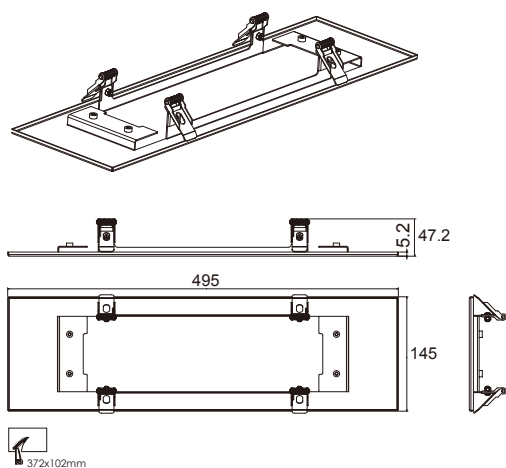
## EE-A2-12 / EE-A2-12D 30M (Recessed installation)

Line drawing(mm):



Optional accessory

Conversion Plate : RE-EE-A2



Pictorial Legends:



Straight



Right



Left



EE-A3-22 50M

EE-A3-22D 50M

# Emergency Exit Sign

应急疏散指示灯



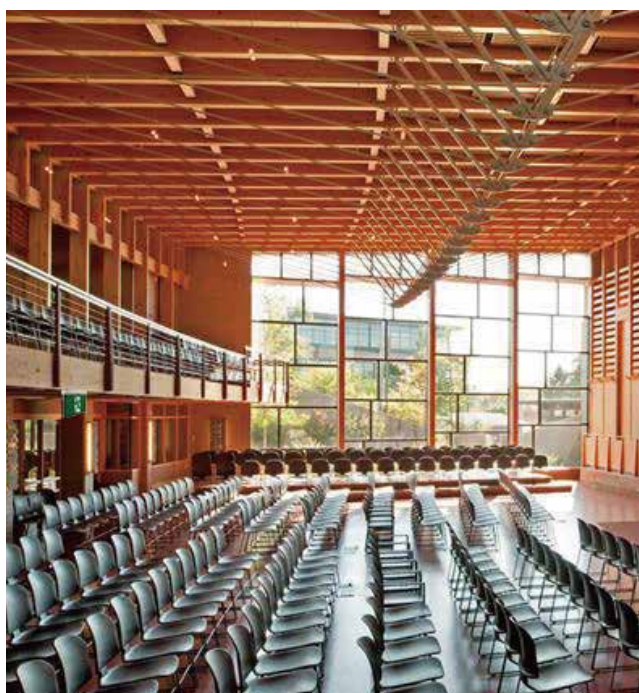
LiFePO4

## Features:

- DALI interface & automatic test (DALI version)
- Wall or surface mounting
- 50m viewing distance
- Two side fitting for pictorial legends
- Intelligent automatic recharging function
- 3 hour emergency operation
- Lithium batteries (LiFePO4)
- LED charge status display
- Test button for test function
- Easy installation

- 具有DALI接口和自动测试功能 (DALI版本)
- 墙装或吸顶式安装
- 50m可视距离
- 双面导光指示
- 智能自动充电功能
- 3小时应急照明
- 锂电池(LiFePO4)
- LED充电状态指示
- 测试按钮检测功能
- 安装便捷

Product applications:



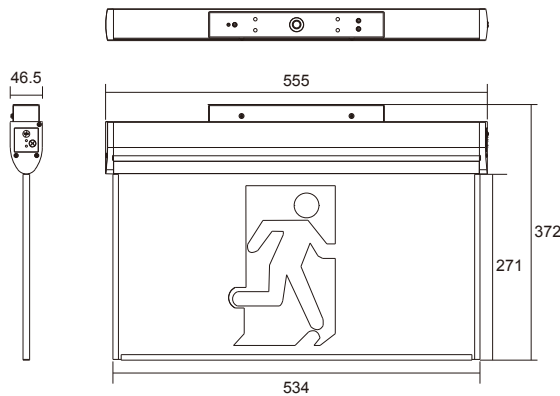
Parameters (EU Version):

|                             |                                   |                                         |
|-----------------------------|-----------------------------------|-----------------------------------------|
| Model No. 型号                | EE-A3-22 50M*                     | EE-A3-22D 50M*                          |
| Rated supply voltage 额定电压   | 220-240VAC 50/60Hz                | 220-240VAC 50/60Hz                      |
| Input power 输入功率            | Max.6.5W                          | Max. 6.5W                               |
| Response time 响应时间          | <0.5S                             | <0.5s                                   |
| Charge current 充电电流         | 200mA                             | 300mA*                                  |
| Charge time 充电时间            | 16h*                              | 24h*                                    |
| Discharge duration 放电时间     | 3h*                               | 3h*                                     |
| Emergency LED power 应急功率    | 2.2W                              | 2.2W                                    |
| Viewing distance 可视距离       | 50m*                              | 50m*                                    |
| Test facility 测试方式          | Manual test                       | DALI interface & automatic test         |
| Operation mode 应急模式         | Maintained                        | Maintained                              |
| IP rating IP等级              | IP 20                             | IP20                                    |
| Protection class 绝缘等级       | Class II                          | Class II                                |
| Material 材料                 | housing: Aluminium,diffuser: PMMA | housing: Aluminium Alloy, diffuser:PMMA |
| Ambient temperature ta 环境温度 | 0...+40°C                         | 0 ...+40°C                              |
| Battery type 电池             | LiFePO4 3.2V 3.3Ah                | LiFePO4 3.2V 6.6Ah*                     |
| Dimensions LxWxH 尺寸         | 555x46.5x372mm                    | 555 x 46.5 x 372 mm                     |

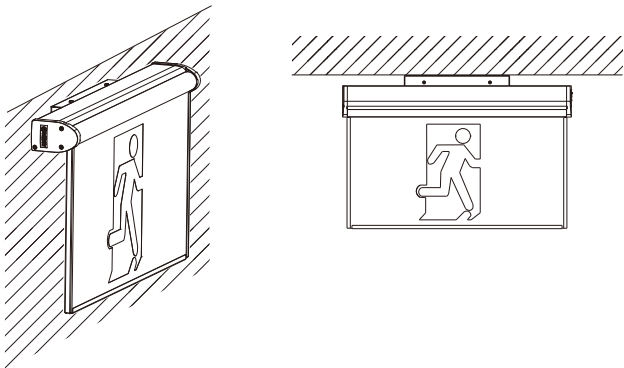
\*Parameter difference for AU version

|                               |              |                    |
|-------------------------------|--------------|--------------------|
| Model No. 型号                  | EE-A3-22 40M | EE-A3-22D 40M      |
| Charge current 充电电流           | /            | 270mA              |
| Charge time 充电时间              | 16h          | 16h                |
| Discharge duration 放电时间       | 1.5h         | 1.5h               |
| Viewing distance 可视距离         | 40m          | 40m                |
| Emergency classification 应急等级 | C0/C90: C32  | C0/C90:C32         |
| Battery type 电池               | /            | LiFePO4 3.2V 3.3Ah |

Line drawing(mm):



Wall or surface mounting:



Pictorial Legends:



Straight



Right



Left

EE-A4-12 30M

EE-A4-12D 30M

## DALI Emergency Exit Sign

DALI 应急疏散指示灯



Black version available



LiFePO4

### Features:

- DALI interface & automatic test (DALI version)
- Surface mounting
- Two side fitting for pictorial legends
- Intelligent automatic recharging function
- 3 hours emergency operation
- Lithium batteries (LiFePO4)
- LED charge status display
- Test button for test function
- Easy installation
- IP65 design
- IK10 design

- 具有DALI接口和自动测试功能 (DALI版本)
- 吸顶式安装
- 双面导光指示
- 智能自动充电功能
- 3小时应急照明
- 锂电池(LiFePO4)
- LED充电状态指示
- 测试按钮检测功能
- 安装便捷
- IP65防护等级
- IK10防护等级

Product applications:



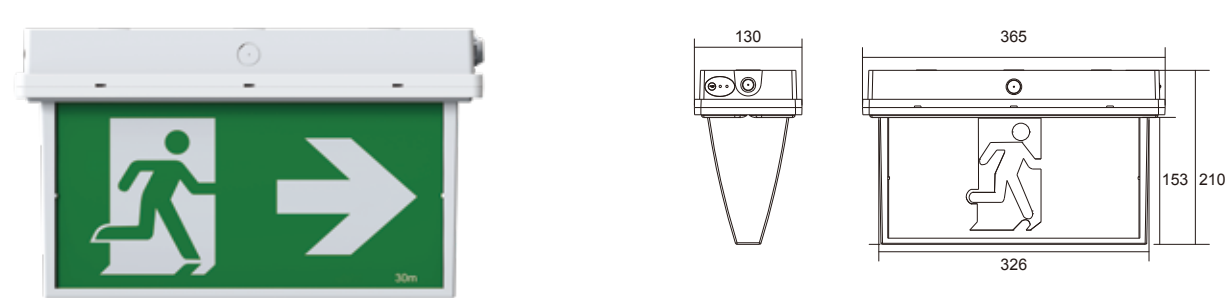
Parameters (EU Version):

|                             |                            |                                 |
|-----------------------------|----------------------------|---------------------------------|
| Model No. 型号                | EE-A4-12 30M*              | EE-A4-12D 30M*                  |
| Rated supply voltage 额定电压   | 220-240VAC 50/60Hz         | 220-240VAC 50/60Hz              |
| Input power 输入功率            | Max.4.5W                   | Max. 3.5W*                      |
| Response time 响应时间          | <0.5S                      | <0.5s                           |
| Charge current 充电电流         | 260mA*                     | 260mA*                          |
| Charge time 充电时间            | 24h*                       | 24h*                            |
| Discharge duration 放电时间     | 3h*                        | 3h*                             |
| Emergency LED power 应急功率    | 1.2W                       | 1.2W                            |
| Viewing distance 可视距离       | 30m*                       | 30m*                            |
| Test facility 测试方式          | Manual test                | DALI interface & automatic test |
| Operation mode 应急模式         | Maintained                 | Maintained                      |
| IP rating IP等级              | IP 65                      | IP65                            |
| IK rating IK等级              | IK10                       | IK10                            |
| Protection class 绝缘等级       | Class II                   | Class II                        |
| Material 材料                 | housing: PC,diffuser: PMMA | housing: PC, diffuser:PMMA      |
| Ambient temperature ta 环境温度 | 0...+40°C                  | 0 ...+40°C                      |
| Battery type 电池             | LiFePO4 3.2V 3.3Ah*        | LiFePO4 3.2V 3.3Ah*             |
| Dimensions LxWxH 尺寸         | 365x130x210mm              | 365 x 130 x 210 mm              |

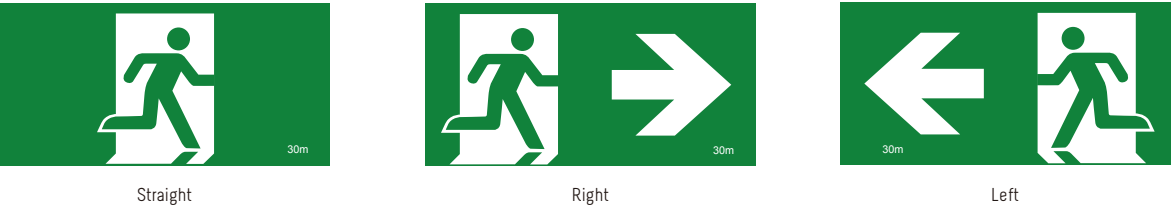
\*Parameters difference for AU version

|                               |                    |                    |
|-------------------------------|--------------------|--------------------|
| Model No. 型号                  | EE-A4-12 24M       | EE-A4-12D 24M      |
| Input power 输入功率              | /                  | Max. 3.0W          |
| Charge current 充电电流           | 150mA              | 120mA              |
| Charge time 充电时间              | 16h                | 16h                |
| Discharge duration 放电时间       | 1.5h               | 1.5h               |
| Viewing distance 可视距离         | 24m                | 24m                |
| Emergency classification 应急等级 | C0/C90:E6.3        | C0/C90:E6.3        |
| Battery type 电池               | LiFePO4 3.2V 1.5Ah | LiFePO4 3.2V 1.5Ah |

Line drawing(mm):



Pictorial Legends:

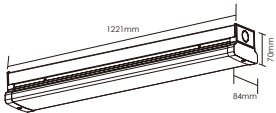


# LED Emergency Luminaires

LED应急灯具

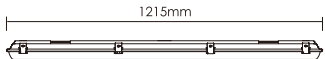
| Model No.<br>型号      | Input power<br>输入功率 | Discharge duration<br>放电时间 | Emergency LED power<br>应急功率 | CCT<br>色温 | Lumens<br>光通量 | Battery type<br>电池 |
|----------------------|---------------------|----------------------------|-----------------------------|-----------|---------------|--------------------|
| BAS 4ft 40W 4000K-EM | 40W                 | 3h                         | 2.4W                        | 4000K     | 4000lm        | LiFePO4 3.2V 3.6Ah |

Input Voltage / 输入电压 : 220-240V    Power Factor / 功率因数: 0.95    Installation / 安装方式: surface mounting 表面安装  
Weight / 重量 : 1950g    Dimensions / 尺寸: 1121x84x70mm



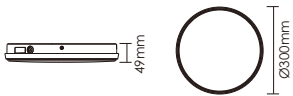
| Model No.<br>型号 | Input power<br>输入功率 | Discharge duration<br>放电时间 | Emergency LED power<br>应急功率 | CCT<br>色温 | Lumens<br>光通量 | Battery type<br>电池 |
|-----------------|---------------------|----------------------------|-----------------------------|-----------|---------------|--------------------|
| TP228-4000K-EM  | 40W                 | 3h                         | 2.4W                        | 4000K     | 4000lm        | LiFePO4 3.2V 3.6Ah |

Input Voltage / 输入电压 : 220-240V    Power Factor / 功率因数: 0.95    Installation / 安装方式: surface mounting / suspension 表面安装/吊装  
Weight / 重量 : 1850g    Dimensions / 尺寸: 1215x116x74mm



| Model No.<br>型号 | Input power<br>输入功率 | Discharge duration<br>放电时间 | Emergency LED power<br>应急功率 | CCT<br>色温         | Lumens<br>光通量        | Battery type<br>电池 |
|-----------------|---------------------|----------------------------|-----------------------------|-------------------|----------------------|--------------------|
| CT300TC-25W-EM  | 25W                 | 3h                         | 2.4W                        | 3000K/4200K/6000K | 2000lm/2200lm/2150lm | LiFePO4 3.2V 4.5Ah |

Input Voltage / 输入电压 : 220-240V    Power Factor / 功率因数: 0.95    Installation / 安装方式: surface mounting 表面安装  
Weight / 重量 : 1200g    Dimensions / 尺寸: Ø300x49mm    ☒ PMMA diffuser PMMA灯罩



| Model No.<br>型号 | Input power<br>输入功率 | Discharge duration<br>放电时间 | Emergency LED power<br>应急功率 | CCT<br>色温 | Lumens<br>光通量 | Battery type<br>电池 |
|-----------------|---------------------|----------------------------|-----------------------------|-----------|---------------|--------------------|
| H.EMG.KIT       | 22W                 | 3h                         | 2.4W                        | 4000K     | 2500lm        | Ni-MH, 3.6V, 3.5Ah |

Input Voltage / 输入电压 : 220-240V    Power Factor / 功率因数: 0.95  
Weight / 重量 : 1950g    Dimensions / 尺寸: Ø270x39mm



# Remote Enclosure

电气盒

RE

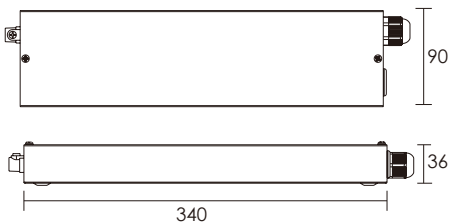
**Features:**

- Independent design
- Steel galvanised enclosure
- Suitable to contain emergency control, battery and LED driver
- Easy installation

- 独立式设计
- 镀锌铁板材质外壳
- 集合应急控制器, 电池和LED驱动器
- 安装简单方便

**Parameters:**

| Model No. | Dimensions<br>LxWxH | Weight      |
|-----------|---------------------|-------------|
| 型号        | 尺寸<br>( mm )        | 重量<br>( g ) |
| RE        | 340x90x36           | 380         |



TPR-EM

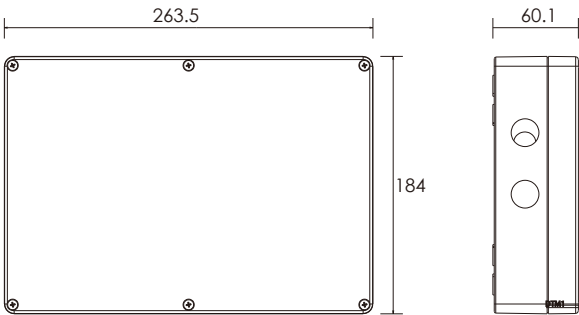
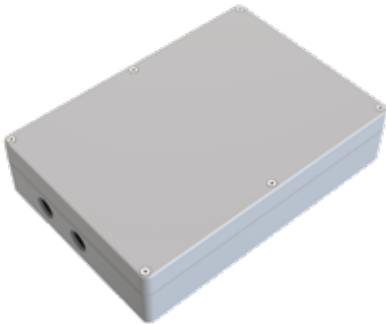
**Features:**

- Independent design
- PC enclosure
- Suitable to contain emergency control, battery and LED driver
- IP65 design

- 独立式设计
- 塑料材质外壳
- 集合应急控制器, 电池和LED驱动器
- IP65

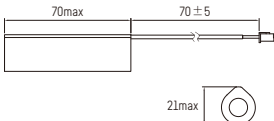
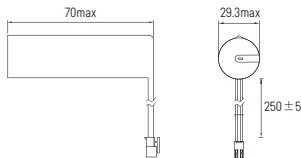
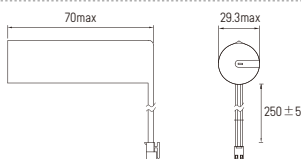
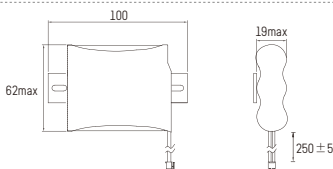
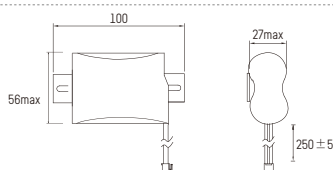
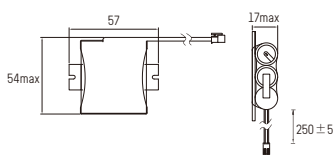
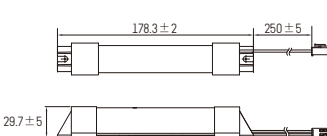
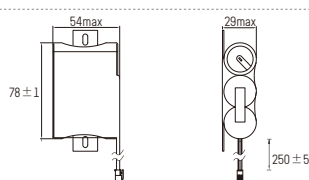
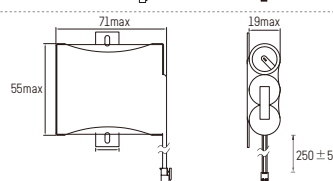
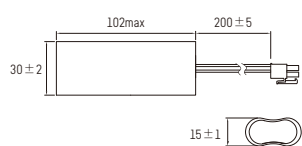
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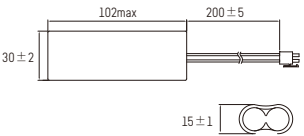
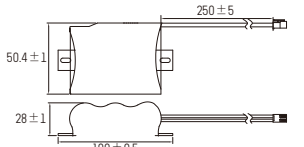
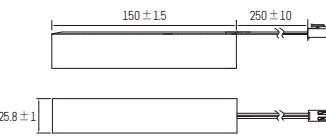
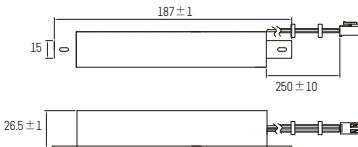
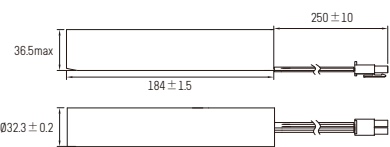
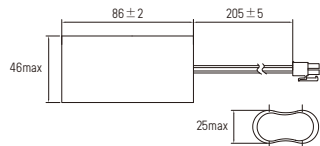
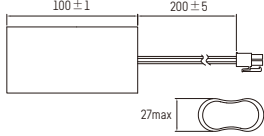
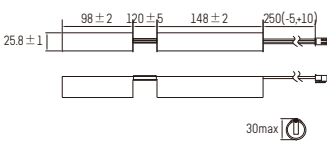
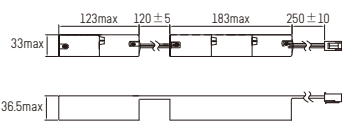
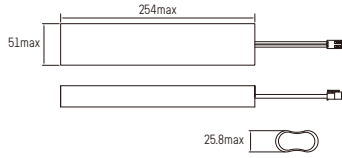
| Model No. | Dimensions<br>LxWxH | Weight      |
|-----------|---------------------|-------------|
| 型号        | 尺寸<br>( mm )        | 重量<br>( g ) |
| TPR-EM    | 263.5x184x60.1      | 700         |



# Accessories

## Battery Specification / 配件 电池规格

| Image<br>产品图                                                                        | Line drawing (mm)<br>线框图                                                            | Model No.<br>型号 | Description<br>规格描述           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|-------------------------------|
|    |    | 40110031        | LiFePO4, 3.2V, 1.5Ah          |
|    |    | 40110061        | LiFePO4, 3.2V, 3.3Ah          |
|    |    | 40110075        | LiFePO4, 3.2V, 3.6Ah          |
|    |   | 40110056        | LiFePO4, 3.2V, 4.5Ah          |
|  |  | 40110060        | LiFePO4, 3.2V, 6.6Ah          |
|  |  | 40110023        | Ni-MH, 3.6V, 1.5Ah, Panasonic |
|  |  | 40110027        | Ni-MH, 3.6V, 3.0Ah            |
|  |  | 40110026        | Ni-MH, 3.6V, 3.1Ah, Panasonic |
|  |  | 40110050        | Ni-MH, 3.6V, 3.5Ah, Panasonic |
|  |  | 40110036        | Ni-MH, 4.8V, 1.5Ah            |

| Image<br>产品图                                                                        | Line drawing (mm)<br>线框图                                                            | Model No.<br>型号 | Description<br>规格描述 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|---------------------|
|    |    | 40110022        | Ni-MH, 4.8V, 1.5Ah  |
|    |    | 40110014        | Ni-Cd, 3.6V, 3.0Ah  |
|    |    | 40110007        | Ni-Cd, 3.6V, 3.0Ah  |
|    |    | 40110019        | Ni-Cd, 3.6V, 3.0Ah  |
|  |  | 40110058        | Ni-Cd, 3.6V, 5.0Ah  |
|  |  | 40110013        | Ni-Cd, 4.8V, 1.5Ah  |
|  |  | 40110002        | Ni-Cd, 4.8V, 2.5Ah  |
|  |  | 40110004        | Ni-Cd, 6.0V, 2.5Ah  |
|  |  | 40110001        | Ni-Cd, 6.0V, 4.5Ah  |
|  |  | 40110015        | Ni-Cd, 12V, 2.5Ah   |