



EPE-EM12

LED Emergency Light

CE IP65  RoHS



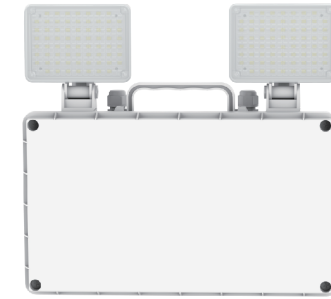
INTRODUCTION

EPE-EM12 IP65 LED Emergency Twin Spot is controlled by smart IC, with a self-test function. The robust white moulded enclosure is rated IK06. High lumen output 750lm/ 1000lm/ 1200lm optional. Spot heads rotatable horizontally and vertically for flexible applications. Simple and low-profile design makes EPE-EM12 fit its surroundings nicely.

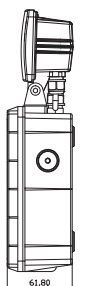
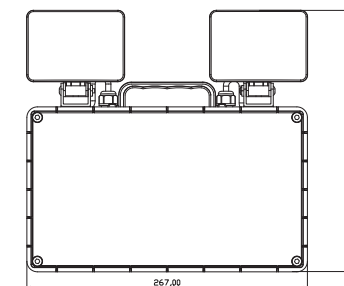
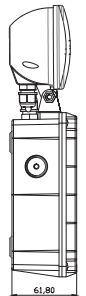
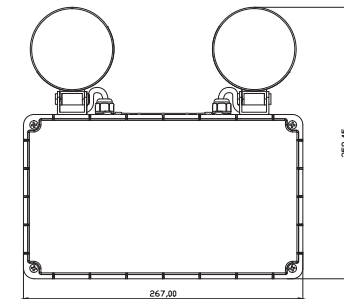
FEATURES

- Durable polycarbonate construction.
- Twin side conduit entry.
- Light weight design for quick and simple installation.
- Ideal for commercial and industrial applications
Self test versions available.
- Non-maintained only.

Square Style



Dimensions unit:mm



Model List

| Model | Input Voltage | Mains Power | Charge Duration | Discharge Duration | Battery | Test Mode |
|----------------|---------------|-------------|-----------------|--------------------|----------------------|------------|
| EPE-EM12-LO-1H | 220-240V | 3W Max | 24H | 1H | LiFePO4 6.4V1500mAh | AT/MT/Dali |
| EPE-EM12-LO-3H | 220-240V | 7W Max | 24H | 3H | LiFePO4 6.4V3200mAh | AT/MT/Dali |
| EPE-EM12-ST-1H | 220-240V | 7W Max | 24H | 1H | LiFePO4 6.4V3200mAh | AT/MT/Dali |
| EPE-EM12-ST-3H | 220-240V | 9W Max | 24H | 3H | LiFePO4 6.4V6000mAh | AT/MT/Dali |
| EPE-EM12-HO-1H | 220-240V | 7W Max | 24H | 1H | LiFePO4 6.4V3200mAh | AT/MT/Dali |
| EPE-EM12-HO-3H | 220-240V | 9W Max | 24H | 3H | LiFePO4 6.4V6000mAh | AT/MT/Dali |
| EPE-EM12B-1H | 220-240V | 11W Max | 24H | 1H | LiFePO4 12.8V3200mAh | AT/MT/Dali |
| EPE-EM12B-3H | 220-240V | 11W Max | 24H | 3H | LiFePO4 12.8V6000mAh | AT/MT/Dali |

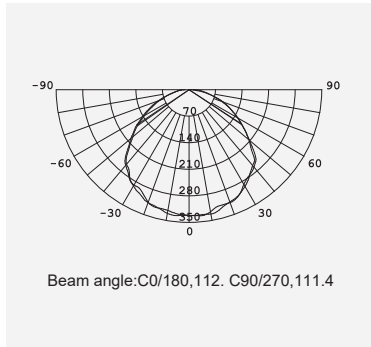
Driver Datasheet

| Model | EPE-EM12-LO | EPE-EM12-ST | EPE-EM12-HO | EPE-EM12B |
|--------------------------|-------------|-------------|-------------|-----------|
| Emergency Power | 5.5W | 7W | 9W | 14W |
| Frequency | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| Input Voltage | 220-240V | 220-240V | 220-240V | 220-240V |
| Discharge Efficiency | ≥80% | ≥80% | ≥80% | ≥80% |
| Power Factor | ≥0.3 | ≥0.3 | ≥0.3 | ≥0.3 |
| Input Current | ≤0.06A | ≤0.1A | ≤0.1A | ≤0.2A |
| Full load output voltage | DC28V | DC28V | DC28V | DC28V |
| Output current | 185mA±5% | 240mA±5% | 295mA±5% | 500mA±5% |
| Short circuit protection | PASS | PASS | PASS | PASS |
| Over voltage protection | PASS | PASS | PASS | PASS |
| Surge | 0.5KV | 0.5KV | 0.5KV | 0.5KV |
| Withstand voltage | AC3750V | AC3750V | AC3750V | AC3750V |

Technical Data Sheet

| Model | EPE-EM12 |
|--------------------------|--------------------------|
| LED | 2835 |
| CCT(K)±10% | 5000K |
| "Luminous Flux(lm) ±10%" | 750/1000/1200/2000lm |
| CRI | >80 |
| Protection Class | Class II |
| IP Rating | IP65 |
| Finishing color | White |
| Material | PC |
| Glow wire test (°C) | COVER:850°C / LENS:750°C |
| Operating Temp (°C) | 0°C ~45°C |
| Storage Temp (°C) | 0°C ~65°C |

Photometric Data



Instructions for automatic test option

1.Once the unit is powered up it will automatically initiate a self test and diagnostics as follows:

- Every 4seconds: Checks for battery disconnection,charger board fault,lamp fault and transfer fault.
- Every month: Performs a 3minutes duration test.
- Every year:Performs a 1 hour or 3 hours duration test.

All test functions are factory preset and do not need field adjustment.

2.Dual Colour Indicator LED Status Mesnings

- Green Solid On Ready/Normal Operation
- Red Requires Service

| | | |
|-------|--------------------------------|-----------------------|
| • | One flashes, 4 seconds pause | Battery not connected |
| •• | Two flashes, 4 seconds pause | Low battery voltage |
| ••• | Three flashes, 4 seconds pause | Charger board fault |
| •••• | Four flashes, 4 seconds pause | AC/DC transfer fault |
| ••••• | Five flashes, 4 seconds pause | LED lamp fault |

NOTE:After repairing a service fault,press and hole the test button for 2 seconds to reset the flashing indicator light to green.

3.Manual Testing

| | |
|--|---------------------------------|
| Press test button once | 30 seconds duration test |
| Press test button twice within 2 seconds | 3 minutes duration test |
| Press test button 3 times within 2 seconds | 30 minutes duration test |
| Press test button 4 times within 2 seconds | 1 hour or 3 hours duration test |

4.Dali Testing

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

| LED indication | Status | Commentary |
|--|------------------------|--|
| Permanent green | System OK | |
| Fast flashing green (0.1sec on-0.1 sec off) | Function test underway | |
| Slow flashing green (1sec on-1 sec off) | Duration test underway | |
| Red LED on | Load failure | Open circuit / Short circuit / LED failure 1 |
| Slow flashing red (1sec on-1 sec off) | Battery failure | Battery failed the duration test or function / Battery is defect / Incorrect battery voltage |
| Fast flashing red (0.1sec on-0.1 sec off) | Charging failure | Incorrect charging current |
| Double pulsing green | Inhibit mode | Switching into inhibit mode via controller |
| Binary transmission of address via green/red LED | Address identification | During address identification mode |
| Green and red off | DC mode | Battery operation (emergency mode) |



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