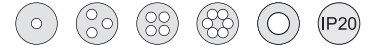
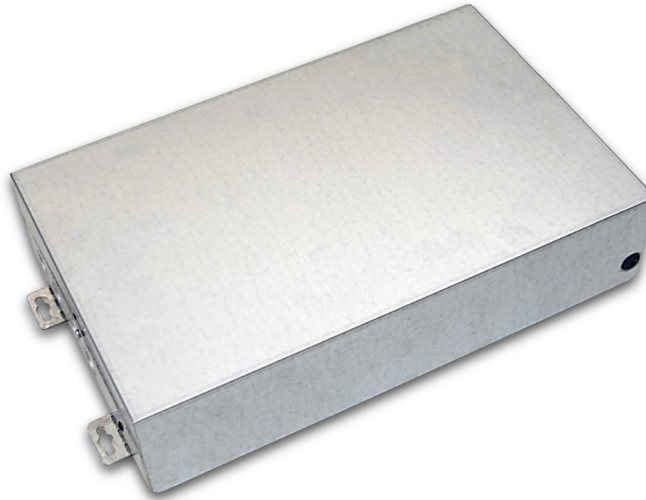


# LED Emergency Pack - 100% BLF - EP3



Full power in emergency mode, for constant current & constant voltage LEDs, 40W

Data sheet page 1



## EP3 (MMA/LA/40)

A remote conversion kit designed to provide full output in emergency mode and will power all loads capable of accepting 230VDC, up to 40W. 3Hr emergency lighting conversion kits designed to suit a wide variety of LED types and circuits. It is suitable for both constant current and constant voltage LEDs.






## Key Features

- Full output in emergency mode
- Conversion kit for mains voltage LED drivers
- Deep discharge protection
- Entire unit housed inside one enclosure
- High capacity VRLA batteries (integral)
- Max 40W load
- Supplied with 1m green charge healthy LED indicator and mounting collar

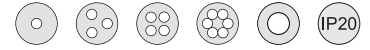
## Specification

|                            | EP3                               |
|----------------------------|-----------------------------------|
| Input Voltage              | 220-240 Volts AC 50/60Hz          |
| Power Rating               | 6.0 Watts                         |
| Emergency Duration         | 3 Hours                           |
| Ballast Lumen Factor (BLF) | 100% in Emergency Mode            |
| Maximum Output             | 40 Watts                          |
| Battery Type               | 12 Volt Valve Regulated Lead-Acid |
| Capacity                   | 17Ah                              |
| Charger                    | Constant Voltage                  |
| Recharge Time              | 24 Hours                          |
| Cut-Off Voltage            | 10.2 Volts                        |
| Ambient Temperature        | 0°C to + 25°C                     |
| IP Rating                  | IP20                              |
| Enclosure                  | Sheet Steel Hinged Enclosure      |
| Dimensions                 | 380mm x 242mm x 90mm              |
| Battery Pack               | Integral                          |
| Overall Weight             | 9.0KG                             |

## Quantitative Fittings per Emergency Pack

| LED type  | Example Fittings | Maximum amount of LEDs per Emergency Pack |       |       |
|---|------------------|---|-------|-------|
|   |                  | 350mA                                     | 500mA | 700mA |
| 1 LED cluster  | LD56, LD72       | 33  | 23    | 16    |
| 3 LED cluster  | LD52, LD74       | 11  | 7     | -     |
| 4 LED cluster  | LD151, LD10238   | 8   | 5     | 4     |
| 6 LED cluster  | LD1210, LD1220   | 5   | 4     | 2     |
| COB LED        | LD1080, LD1092   | 5   | 4     | 2     |

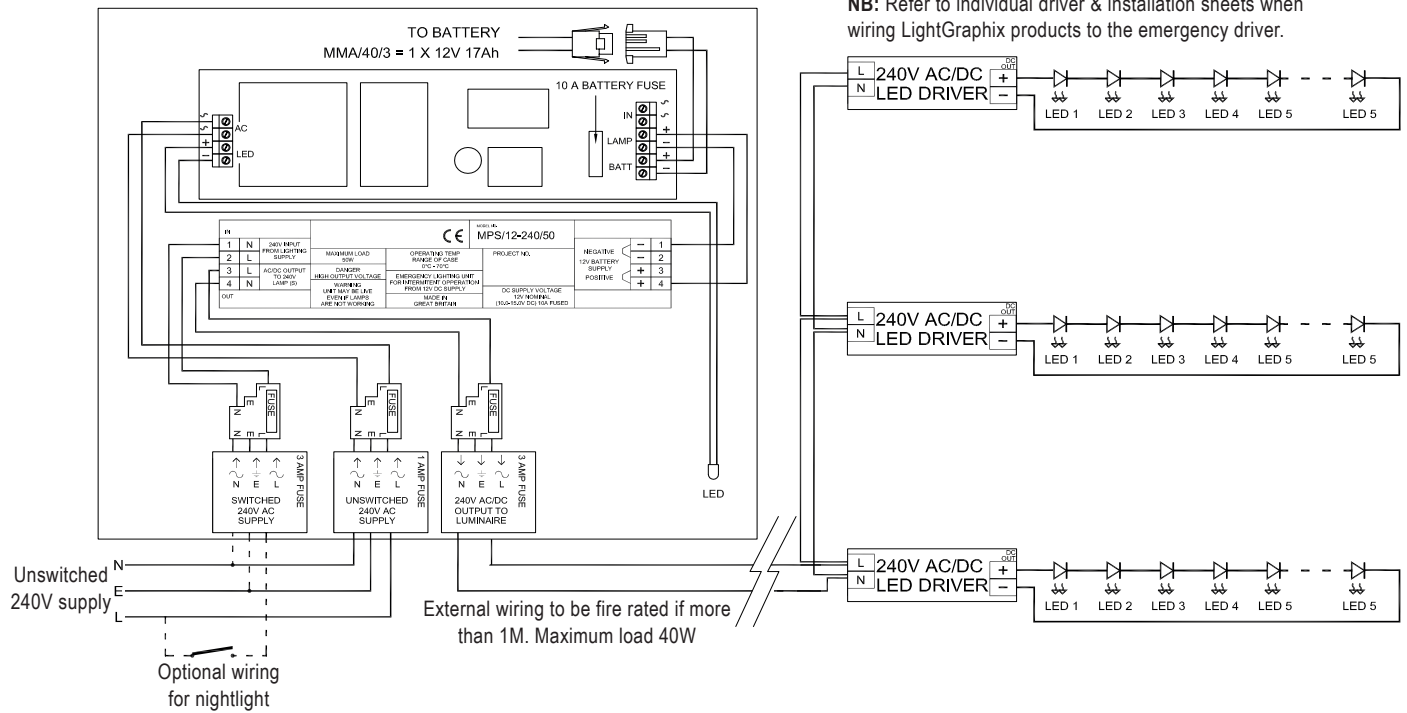
# LED Emergency Pack - 100% BLF - EP3



Full power in emergency mode, for constant current & constant voltage LEDs, 40W

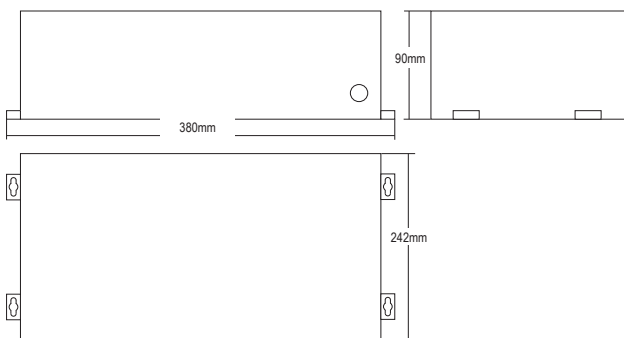
Data sheet page 2

## Installation Details - Typical Wiring Diagram



## Fixing Options and Dimensions

|                             |                      |
|-----------------------------|----------------------|
| Dimensions - Module (WxHxD) | 380mm x 242mm x 90mm |
| Total Weight                | 9.0 Kg               |



## Order Codes

| Emergency pack option | Order Code      |
|-----------------------|-----------------|
| EP3 (MMA/LA/40)       | EP3 (MMA/LA/40) |

# LED Emergency Packs - EP4

Emergency pack for constant current LEDs

Data sheet page 3

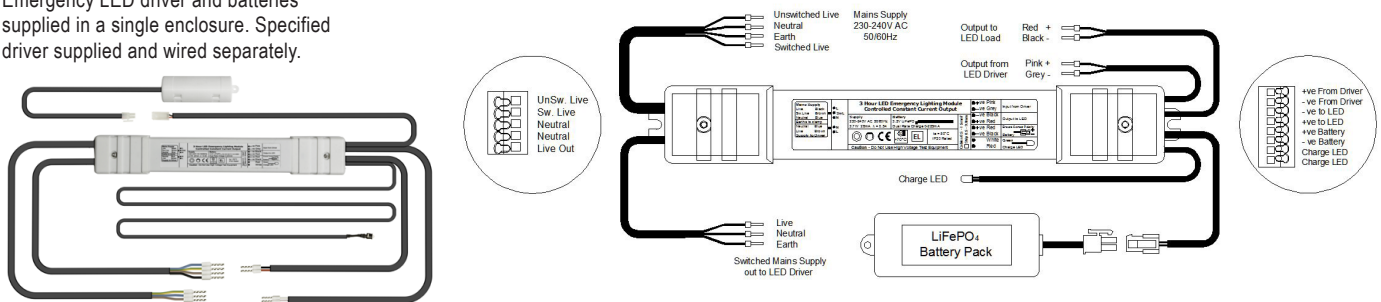
## EP4 (NLP/1/TP40)

3Hr emergency lighting conversion kits designed to suit a wide variety of LED types and circuits. They are designed to be installed by breaking into the low voltage connection between the mains LED driver and the LEDs and allows the LEDs to be operated as normal under mains healthy conditions and operated at reduced light output in an emergency. The emergency driver is designed to automatically adjust the LED output current to provide the best match between the battery and the load, providing maximum illumination whilst ensuring full battery duration.

The emergency pack will need a specified LED driver to run the LEDs when not in emergency mode.

## EP4 - (NLP/1/TP40)

Emergency LED driver and batteries supplied in a single enclosure. Specified driver supplied and wired separately.



## Ballast Lumen Factor

The Ballast Lumen Factor is the output of the LED in emergency mode, and is described as a percentage of the output in normal operation

| Output Current (mA) |  |                | Number of fittings |       |       |       |       |       |       |      |      |      |      |      |      |      |
|---------------------|--|----------------|--------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| Example product     |  |                | 1                  | 2     | 3     | 4     | 5     | 6     | 7     | 8    | 9    | 10   | 11   | 12   | 13   | 14   |
| Single LED fittings |  | LD41, LD72     | 560mA              | 320mA | 230mA | 180mA | 145mA | 120mA | 105mA | 90mA | 80mA | 75mA | 70mA | 60mA | 55mA | 55mA |
| 3 die LED fittings  |  | LD52, LD75     | 230mA              | 120mA | 80mA  | 60mA  |       |       |       |      |      |      |      |      |      |      |
| 4 die LED fittings  |  | LD151, LD153   | 180mA              | 90mA  | 60mA  |       |       |       |       |      |      |      |      |      |      |      |
| 6 die LED fittings  |  | LD1250, LD1210 | 120mA              | 60mA  |       |       |       |       |       |      |      |      |      |      |      |      |
| COB LED             |  | LD1080, LD1092 | 120mA              | 60mA  |       |       |       |       |       |      |      |      |      |      |      |      |

BLF can be worked out by dividing the current in emergency (see above) by the normal running current.  
E.g. for 3 LEDs normally run at 700mA the BLF will be 250mA ÷ 700mA = 36%.

| Luminaire Power | 5W  | 7W  | 10W | 14W |
|-----------------|-----|-----|-----|-----|
| BLF             | 60% | 43% | 30% | 21% |

## Specification

|                         |   |
|-------------------------|---|
| Supply Voltage          | 230-240 Volts AC 50/60 Hz                 |
| Power Rating            | 3.2 Watts                                 |
| Power Factor            | 0.4                                       |
| Duration                | 3 hours                                   |
| Ambient Temp            | 0°C to + 50°C                             |
| Max case temperature    | 70°C                                      |
| Max battery temperature | 55°C                                      |
| Terminal blocks         | 0.5-1.5mm <sup>2</sup> Push Wire terminal |
| Battery fuse            | Internal                                  |
| Supply fuse             | N/A                                       |
| Battery pack            | 3.2V 3.6Ah LiFePO4 Cell                   |
| Charge current          | 0-250mA                                   |
| Recharge period         | 24 hours                                  |

## Dimensions

### EP4

|                     |                 |
|---------------------|-----------------|
| Dimensions - Module | 231 x 34 x 23mm |
| Total weight        | 1.0Kg           |



## Order Codes

| Emergency pack option | Code |
|-----------------------|------|
| EP4 (NLP/1/TP40)      | EP4  |