

### LED EMERGENCY BATTEN

- LiFePO<sub>4</sub>WER technology is a sustainable energy development that offers twice the battery life, twice the maintenance-free period and is an environmentally friendly, advancement in sustainability, containing no carcinogens or toxic heavy metals
- High performance Osram LED light source with quaranteed reliability and efficacy
- Optional microwave and daylight sensors
- High efficiency Meanwell power supply
- Smart communications port for M+H Sentinel and M+H Wi Net compatibility

- Maintained / Non-Maintained emergency mode of operation with internal switch link to permit connection of an external switch. For twin tube models, both tubes illuminate on emergency
- Innovative energy efficient LED-driving technology for low standby power consumption and high illumination
- Unique tube-like design with shatter-proof polycarbonate light diffuser
- Prismatic diffusers or wire guards available separately
- Fully tested and approved in accordance to AS / NZS 2293
- 4 hour option available

# WHAT IS LiFePO4WER?

- Li (Lithium) Fe (Iron) PO4 (Phosphate)
- A long-life, reliable and environmentally friendly energy innovation
- 10 year design life
- Truly sustainable no carcinogens or toxic heavy metals
- 4\* year warranty



# APPLICATIONS INCLUDE

- Carparks
- Apartments
- Stairwells
- Warehouses
- Factories
- Commercial Properties

\*LightSaver comes with a 2 year product warranty. To extend the battery warranty to 4 years, simply register. Visit: emergencylighting.mpower.com. au/LightSaverguarantee

Compatible with





M+H SENTINEL™ Automatic Self Testing



# **Specifications**

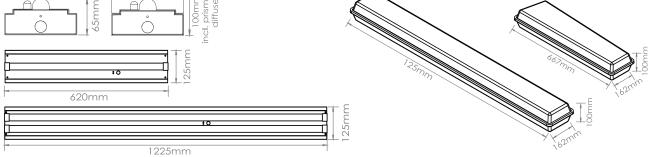
| PART NUMBER                   | LB12LS   | LB22LS   | LB14LS         | LB24LS                    | LB12LSWP       | LB22LSWP         | LB14LSWP     | LB24LSWP    |  |
|-------------------------------|--|--|----------------|---------------------------|----------------|------------------|--------------|-------------|--|
| POWER CONSUMPTION (STANDBY*)  | 3W   | 6W   | 6W             | 12W                       | 3W             | 6W               | 6W           | 12W         |  |
| POWER CONSUMPTION (LEDs)      | 9.6W   | 19.2W  | 19.2W          | 38.4W                     | 9.6W           | 19.2W            | 19.2W        | 38.4W       |  |
| OPERATING VOLTAGE & FREQUENCY | 240V AC 50Hz   |  |                |                           |                |                  |              |             |  |
| LIGHT SOURCE                  | High Perfor  | High Performance Osram Duris LEDs  |                |                           |                |                  |              |             |  |
| FUNCTION                      | Maintained   | / Non-Mainto   | ained with int | ternal switch             | link to permit | external swit    | ching        |             |  |
| BATTERY / CHARGER             | High Temp  | Lithium Iron F   | hosphate w     | ith LiFePO <sub>4</sub> V | VER™ Technol   | logy and intelli | gent 3-Stage | e charger   |  |
| PROTECTION                    | Battery: Th  | Battery: Thermal cut-off, overcharge and low voltage disconnect. Circuit: Overvoltage and overcurren |                |                           |                |                  |              | overcurrent |  |
| EMERGENCY DURATION            | > 2 Hours. 4 hour option available upon request                              |  |                |                           |                |                  |              |             |  |
| INDICATORS / CONTROLS         | Charge indi  | Charge indicator red LED / Sentinel yellow LED / TEST button   |                |                           |                |                  |              |             |  |
| IP CLASSIFICATION             | IP20   |  |                |                           | IP66           |                  |              |             |  |
| ENVIRONMENT                   | Indoor Outdoor   |  |                |                           |                |                  |              |             |  |
| BODY CONSTRUCTION             | Full anodised aluminium, powdercoated white Fibre Glass Reinforced Polyester |  |                |                           |                |                  |              |             |  |
| DIFFUSER CONSTRUCTION         | Acrylic - Prismatic Polycarbonate  |  |                |                           |                |                  |              |             |  |
| TEMPERATURE RANGE             | 0 to 40°C  |  |                |                           |                |                  |              |             |  |
| STANDARDS                     | AS / NZS 2293, AS 60598.2.22, EMC to CISPR 15                                |  |                |                           |                |                  |              |             |  |
| M+H WI NET COMPATIBLE         | Yes  |  |                |                           |                |                  |              |             |  |
| M+H SENTINEL COMPATIBLE       | Yes  |  |                |                           |                |                  |              |             |  |

<sup>\*</sup> Standby Power Consumption based on LED Batten fitted with optional Microwave Sensor being on full standby mode, with batteries fully charged.

| ACCESSORIES |                           |  |  |  |  |
|-------------|---------------------------|--|--|--|--|
| D20         | 600mm Prismatic Diffuser  |  |  |  |  |
| 901875      | 600mm Wire Guard          |  |  |  |  |
| D40         | 1200mm Prismatic Diffuser |  |  |  |  |
| 901876      | 1200mm Wire Guard         |  |  |  |  |

| REPLACEMENT BATTERIES |  |  |  |  |  |
|-----------------------|--|--|--|--|--|
| LIP/4S1P/1500         | Replacement battery for LB12LS, LB12LSWP                   |  |  |  |  |
| LIP/4S1P/3200         | Replacement battery for LB22LS, LB22LSWP, LB14LS, LB14LSWP |  |  |  |  |
| LIP/4S2P/3200         | Replacement battery for LB24LS, LB24LSWP                   |  |  |  |  |

| DIMENSIC             | ons -  |                       |             |            |                 |                           |        |  |
|----------------------|--------|-----------------------|-------------|------------|-----------------|---------------------------|--------|--|
| Standard 600mm (2ft) |        | Standard 12           | 200mm (4ft) | Weatherpro | oof 600mm (2ft) | Weatherproof 1200mm (4ft) |        |  |
| WEIGHT               | 3.5kg  | WEIGHT                | 4.5kg       | WEIGHT     | 5.0kg           | WEIGHT                    | 5.5kg  |  |
| LENGTH               | 620mm  | LENGTH                | 1225mm      | LENGTH     | 667mm           | LENGTH                    | 1267mm |  |
| WIDTH                | 125mm  | WIDTH                 | 125mm       | WIDTH      | 162mm           | WIDTH                     | 162mm  |  |
| DEPTH                | 65mm   | DEPTH                 | 65mm        | DEPTH      | 100mm           | DEPTH                     | 100mm  |  |
|                      | \$28mm | 100mm incl. prismatic | diffuser    |            |                 |                           |        |  |



 $Dimensions\ and\ specifications\ subject\ to\ change\ without\ prior\ notice\ due\ to\ ongoing\ product\ development\ policy\ and\ changes\ to\ industry\ standards.$ 

| SPACING  | TABLE MOUNTING HEIGHTS |             |              |              |              |              |              |              |              |              |              |              |              |              |      |
|----------|------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|
| PRODUCT  | NATA CLAS              | SSIFICATION | 2.1m         | 2.4m         | 2.7m         | 3m           | 3.3m         | 3.6m         | 4m           | 5m           | 6m           | 7m           | 8m           | 10m          | 15m  |
| LB12LS   | C0                     | D125        | 24.5         | 25.6         | 27.5         | 28.3         | 29.1         | 30.1         | 31.2         | 34.0         | 35.5         | 36.7         | 37.8         | 40.8         | 40.0 |
|          | C90                    | D63         | 19.4         | 20.3         | 21.1         | 21.8         | 22.4         | 23.0         | 23.7         | 25.2         | 26.4         | 27.4         | 28.1         | 28.9         | 28.0 |
| LB22LS   | C0                     | D250        | 30.8         | 32.2         | 33.5         | 34.7         | 35.8         | 36.8         | 38.1         | 40.9         | 43.3         | 45.4         | 47.2         | 50.3         | 55.2 |
|          | C90                    | D125        | 24.5         | 25.6         | 27.5         | 28.3         | 29.1         | 30.1         | 31.2         | 34.0         | 35.5         | 36.7         | 37.8         | 40.8         | 40.0 |
| LB14LS   | C0                     | D200        | 28.6         | 29.9         | 31.1         | 32.2         | 33.2         | 34.2         | 35.3         | 37.9         | 40.1         | 42.0         | 43.6         | 46.3         | 50.4 |
|          | C90                    | D100        | 22.7         | 23.7         | 24.6         | 25.5         | 26.3         | 27.0         | 27.9         | 29.8         | 31.4         | 32.7         | 33.7         | 35.3         | 36.5 |
| LB24LS   | C0                     | D400        | 36.0         | 37.6         | 39.2         | 40.6         | 41.9         | 43.1         | 44.6         | 48.0         | 50.9         | 53.5         | 55.7         | 59.5         | 66.4 |
|          | C90                    | D200        | 28.6         | 29.9         | 31.1         | 32.2         | 33.2         | 34.2         | 35.3         | 37.9         | 40.1         | 42.0         | 43.6         | 46.3         | 50.4 |
| LB12LSWP | C0<br>C90              | D40<br>D20  | 16.7<br>13.1 | 17.4<br>13.6 | 18.0<br>14.4 | 18.6<br>14.5 | 19.1<br>14.8 | 19.6<br>15.1 | 20.1<br>15.5 | 21.3<br>16.1 | 22.1<br>16.4 | 22.7<br>16.3 | 23.0<br>16.0 | 23.1<br>14.5 | 19.4 |
| LB22LSWP | C0                     | D80         | 21.1         | 22.0         | 22.8         | 23.6         | 24.3         | 25.0         | 25.8         | 27.5         | 28.9         | 30.0         | 30.9         | 32.1         | 32.4 |
|          | C90                    | D40         | 16.7         | 17.4         | 18.0         | 18.6         | 19.1         | 19.6         | 20.1         | 21.3         | 22.1         | 22.7         | 23.0         | 23.1         | 19.4 |
| LB14LSWP | C0                     | D63         | 19.4         | 20.3         | 21.1         | 21.8         | 22.4         | 23.0         | 23.7         | 25.2         | 26.4         | 27.4         | 28.1         | 28.9         | 28.0 |
|          | C90                    | D32         | 15.4         | 16.1         | 16.7         | 17.2         | 17.6         | 18.0         | 18.5         | 19.5         | 20.2         | 20.6         | 20.7         | 20.3         | 14.6 |
| LB24LSWP | C0                     | D125        | 24.5         | 25.6         | 27.5         | 28.3         | 29.1         | 30.1         | 31.2         | 34.0         | 35.5         | 36.7         | 37.8         | 40.8         | 40.0 |
|          | C90                    | D63         | 19.4         | 20.3         | 21.1         | 21.8         | 22.4         | 23.0         | 23.7         | 25.2         | 26.4         | 27.4         | 28.1         | 28.9         | 28.0 |

# Energy Saving Technologies

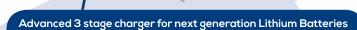


Intelligent microwave sensor with light dimmer control

When coupled with it, this next-generation LED luminaire is able to measure natural daylight, occupancy and activity levels to allow for more efficient light delivery and potentially up to 89% energy savings. It allows the light to turn on automatically when a person's presence is detected, and automatically turns off or drops down to 0 - 50% brightness if no motion is detected after a period of time.

#### Perfectly Homogeneous Osram Duris LEDs

A new low-power, long life LED that offers a small lumen package, a high efficacy, immensely efficient, and a wide beam angle in a compact format. That is why they are the preferred choice for replacing fluorescent tubes in the field of industry, home, shop, office and signage.



Lithium Iron Phosphate technology contains no toxic heavy metals or carcinogenic materials and is significantly more sustainable, beneficial and effective than existing alternatives such as Nickel Cadmium and Nickel Metal Hydride. The integrated charger system negates the need to constantly charge the batteries when they are at full capacity, ensuring efficient use of energy and reduces waste.

# CASE STUDY: Cost Recovery Anaylsis for 100 x Twin 1200mm 4ft W/P Battens

SAVINGS SUMMARY AT A GLANCE UP TO 89% ENERGY SAVINGS

TOTAL COST OVER 5 YEARS

**LED BATTEN:** \$42,585 **T8 BATTEN:** \$159,492 **T5 BATTEN:** \$136,716 UP TO \$116,901 SAVINGS OVER 5 YEARS UP TO 61.6
TONNES
LESS CO<sup>2</sup>
PER YEAR

PAYBACK PERIOD 0.9 YEARS

|   | Twin LED Tube 4ft<br>W/P Batten | Twin 36W T8 Tube 4ft W/P<br>Batten (with wound ballast) | Twin 28W T5 Tube 4ft W/P<br>Batten (with electronic ballast) |
|---|---------------------------------|---|--|
| Initial Supply Cost                     | \$30,000.00                     | \$19,000.00   | \$23,000.00  |
| CO2 created per year (kg)               | 7,708.8                         | 69,379.2  | 53,961.6   |
| Total Power Consumption per year (kW/h) | 8,760                           | 78,840  | 61,320   |
| Replacement Tubes                       | -                               | \$2,000.00  | \$3,200.00   |
| Labour for Replacing tubes              | -                               | \$3,250.00  | \$3,250.00   |
| <b>Total Running Cost per year</b>      | \$2,277.60                      | \$20,498.40   | \$15,943.20  |
| Total Running Cost over 5 years         | \$42,585.18                     | \$159.492.00  | \$136,716.00   |
| Extra Cost of Ownership over 5 Years    |                                 | \$116,906.82  | \$94,130.82  |

All battens are ON 24 hours a day, all LED Battens are fitted with Microwave Sensors and remains in standby mode 90% per day

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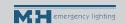
10 11 12

13 14

YFARS

### **Assumptions**

- Based on electricity rate of \$0.26 per kW/h
- Customer buy price 4ft LED Emergency W/P Batten @ \$300.00 each
  - 4ft T8 Emergency W/P Batten @ \$190.00 each
  - 4ft T5 Emergency W/P Batten @ \$230.00 each
- Power consumption 4ft LED Emergency W/P Batten @ 10W per fitting (standby)
  - 4ft T8 Emergency W/P Batten @ 90W per fitting
  - 4ft T5 Emergency W/P Batten @ 70W per fitting
- Cost for T8 tubes at \$5 each, cost of T5 tube at \$8 each
- Lifespan: 50,000 hours, T8 lifespan 20,000 hours, T5 20,000 hours
- Labour rate at \$65 per hour, at 15 minutes per fitting
- For CO2, the emission intensity used is 880g per kWh



# Testing & Monitoring Technologies

All M+HBardic-branded products are compatible with M+H Wi Net and M+H Sentinel technology, offering smart testing and monitoring capabilities by using simple plug-and-play modules as required.











M+H Wi Net™ is a web-based real-time emergency lighting monitoring and control system that offers building owners, maintenance managers or service agents total control over their public safety obligations, and helps manage installation and the maintenance of an emergency lighting system.

#### The system enables the user to:

- Continuously monitor the system in real-time
- Manage the installation and removal of fittings
- Assign fittings to individual groups
- Maintain reliability and integrity of lights by ensuring tests are performed as per AS / NZS 2293
- Log and print test results
- Manage maintenance activities
- Provide long-term cost savings

30 years of experience in state-of-the-art emergency lighting is at your disposal. The M+H Sentinel Automatic Self Testing System is designed to a world standard, providing smart, easy and inexpensive compliance to the AS2293 Standards.

#### The benefits of M+H Sentinel include:

- No additional wiring
- No test kits required on switchboards
- Can be installed on existing lighting circuits
- Easily retrofitted into M+HBardic products
- Genuine cost savings
- Automatic and manual control
- Luminaire always responds in an emergency
- Fully compliant with AS / NZS 2293



MPower is the leading provider of innovative and dependable power solutions in Australia, New Zealand and the South Pacific. With a history that extends over 100 years, MPower provides a diverse range of power solutions and products for every purpose.

We deliver a vast range of products and solutions to an equally diverse customer base in the green energy, domestic, commercial, oil & gas, industrial, utilities, defence and mining sectors. Our Solutions encompass power generation, power storage, backup power and power conversion.



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