






**Table showing Sentinel Indicator States**

Yellow LED Indicator	Description
Green LED and Yellow LED ON 	Normal mode of operation Battery on charge and luminaire passed its last test
Green LED and Yellow LED OFF 	Emergency Luminaire on Test. Mains Power OFF
Green LED Permanently ON, Yellow LED Flashing 4sec ON, 1sec OFF 	Within the last 5 days, the emergency luminaire passed its test.
Green LED Permanently ON, Yellow LED flashing continuously 	Emergency luminaire failed its last test and requires attention.
Green LED Permanently ON, Yellow LED flashing continuously for 5 secs 	The Manual Test command is acknowledged, the test will start immediately battery is fully charged.
The Green LED, when illuminated indicates that the battery is charging. The Green LED when OFF, indicates that the AC supply is OFF, or the emergency light is running a sentinel test. The Yellow LED indicates that the Sentinel feature has been activated and the LED is normally illuminated except during periods of test and mains failure.	

**MAINTENANCE RECORD**

OWNER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

INSTALLATION DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

SIX MONTHS CHECK				
DATE	LIGHT TEST	LED TEST	LAMP CHECK	TESTER

**THE BARDIC WARRANTY**

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

If the BARDIC emergency lighting fitting (the unit) is found to be defective due to faulty workmanship or faulty materials used in its manufacture (but excluding defects due to neglect, misuse or abuse of the unit by any person) within twelve months of the date of purchase, it will be repaired free of charge (except the fluorescent tube and/or the incandescent globe which are not covered by this warranty) or, at the sole discretion of the manufacturer, replaced. In either case, return to the purchaser, freight paid.

Any faulty unit should be forwarded FIS to the point of purchase, accompanied by the sales voucher to establish the date of purchase.

The unit must be clearly marked with the name and address of the purchaser and the nature of the fault. If the sales voucher is unavailable at the time of claim, the warranty will be deemed to have commenced from the packaging date as indicated by the unit date stamp.

All warranty claims on the unit in question must be received by the distributor within the twelve month warranty period. This warranty does not apply to any unit which is situated outside of Australia.

This warranty is in addition to all other warranties rights and remedies implied by or available under any laws in force in Australia. Any civil liability of the manufacturer howsoever arising shall insofar as the same may be legally done be limited at the manufacturer's option as follows:

- a. Any liability for breach of warranty, subject to the said limitations, is limited in a case of goods to any one or more of the following (as selected by the manufacturer):
  - (i) The replacement of the goods or the supply of equivalent goods; or
  - (ii) The repair of the goods; or
  - (iii) The payment of the cost of replacing the goods or requiring equivalent goods; or
  - (iv) The payment of the cost of having the goods repaired
- b. And in the case of services such liability shall be limited to any one of the following (as selected by the manufacturer)
  - (i) The supplying of the services again;
  - (ii) The payment of the cost of acquiring those services again; The manufacturer shall not be liable for any indirect or consequential loss however and whatsoever arising.

Mpower manufactures a range of emergency lighting fittings without integral batteries (commonly termed as Slaves), for operation in conjunction with central power supplies.

Mpower will not be responsible for any damages to slave units as a result of connection to central power supplies operating outside the voltage parameters specified for these slave units.

**BARDIC**  
**PREMIUM**



**MLEDLP**

CLASSIC LED EXIT / EMERGENCY LUMINAIRE

POWERED BY LiFePO<sub>4</sub> WER TECHNOLOGY  
WITH BUILT-IN SENTINEL  
& WINETRF COMPATIBLE

**Installation - Maintenance  
Testing Instructions  
and Warranty**



# BARDIC EMERGENCY LIGHTING SINGLE POINT UNITS (S.P.U.)

## CLASSIC EXIT

### LiFePO<sub>4</sub> WER BATTERY

**WARNING! DISCONNECT SUPPLY BEFORE INSTALLING, DECOMMISSIONING OR MODIFYING THIS FITTING!**  
**WARNING!** The control box should not be opened and should only be handled by a qualified competent person.  
**WARNING!** This luminaire is intended only for mounting in locations where the plug and socket are protected from unauthorized disconnection.



### DESCRIPTION

When the mains supply fails, these units provide 2 hours illumination from a fully charged battery following a 16 hours charge. The MLEDLP is intended for connection to 230 V.A.C. +10 / -6% 50Hz supply via an unswitched active.

The MLEDLP is manufactured with the BARDIC SENTINEL automatic tester built-in or can accept the BARDIC WINETRF as an optional extra. The SENTINEL feature if enabled will automatically test the fitting every 91 days for operation in the emergency condition (operation on battery) for a minimum duration of 90 minutes. The results of the test, fail or pass, is indicated by flashing the yellow LED (mounted on the fitting) at intervals

**Please refer to the Sentinel user guide section if enabling the sentinel feature.**

The BARDIC WINETRF central monitoring module allows the fitting to communicate with the BARDIC WINETRF system, which offers additional functions such as real-time control and monitoring, web-based interface, free topology, automatic scheduler and electronic logbook. For further information about BARDIC SENTINEL or BARDIC WINETRF, contact your local dealer or visit [www.mpower.com.au](http://www.mpower.com.au).

### Box Contents

Installation Leaflet  
MLEDLP fitting \*\*BODY ONLY

### PRODUCT SPECIFICATIONS

Nominal Voltage: 230V  
Nominal Frequency: 50Hz  
IP Rating: IP20  
Rated Maximum Ambient Temperature: 40°C  
Power Consumption: 5V.A Maximum.

### FUNCTIONS

The MLEDLP comes complete with an automatic charger, inverter module and lithium iron phosphate battery. The inverter and battery powers an LED strip which switches off when AC is supplied and switches on automatically when AC fails. Solid state circuitry switches off the LEDs and isolates the battery when it is fully discharged and will not reset until mains is restored.

A GREEN light emitting diode (LED) charge monitor indicates a healthy mains supply and functioning charger. A test switch to simulate a mains power failure is included for testing an emergency operation when the mains supply is healthy.

### IMPORTANT!

A faulty battery can place severe overloads upon electrical components in the fitting therefore it is important that the faulty battery be replaced as soon as possible.

**WARNING: Do not touch the surface of the lamp with bare fingers!**

### INSTALLATION

NOTE: The fitting is shipped with the SENTINEL option disabled by default. If the BARDIC SENTINEL feature is to be enabled or BARDIC WINETRF option is to be fitted, check the installation instructions provided before proceeding further.

- Mounting Bracket
  - Fix the baseplate to the wall or ceiling using either the two fixing slots or the four screw holes provided. For wall mounting, check that the arrow on the label inside the baseplate is pointing upwards.
- The battery has been disconnected prior to the packaging to minimize discharge during storage. Reconnect leads and write installation date on battery.
- Align the MLEDLP body to the installed baseplate, with the TEST button and indicator LEDs on the opposite side to the 'TOP' arrow on the baseplate (This would position the TEST button and LED towards the floor in the wall mounted installations).
- Ensure that the connecting plug in the body aligns correctly with the sockets on the baseplate, with your palms, push the center of the body towards the baseplate until the plugs and sockets are completely engaged.
- Screw the body to the baseplate, do not over tighten the screws. Fit the diffuser.
- Decals
  - Select the required running man pictogram. Ensure that the pictogram is correctly oriented by comparing to the diffuser panel, it would only go in correctly one way.
  - To insert the pictogram into the diffuser panel, slide the running man pictogram over the diffuser panel and locate the horizontal tabs. Then slide the decal into the slots and lock down.
  - Next lock in the top two vertical tabs in the appropriate slots. Then insert the bottom two vertical tabs in their slots.
  - Repeat steps 1-3 on the other side of diffuser panel if a doubled sided pictogram exit is required. - Applicable to ceiling mounts
- Diffuser Panels
  - To remove the diffuser, push down on the sides of the circular latches located on both sides of the fitting until the latch disengages.
  - To re-install the diffuser, align the diffuser panel to the body of the MLEDLP and gently push down until the side latches engage.

### COMMISSIONING

IMPORTANT! If the BARDIC SENTINEL or BARDIC WINETRF has been fitted, then follow their respective commissioning instructions.

- Switch on mains supply. The charge monitor LEDs will illuminate.
- Allow the unit to operate for 30mins and then depress the test switch to check emergency operation.
- Release the test switch and allow the unit to operate for 16 hours to fully charge the battery after which time the unit is ready for duty.
- A 2-hour discharge test is required as part of the commissioning process as per AS2293

### MAINTENANCE

- MONTHLY - Inspect to ensure charge monitor is illuminated.
- SIX MONTHLY (or at the discretion of the enforcing Authority) - Isolate the mains supply to unit and allow it to operate until the lamp extinguishes. Should the unit provide less than 90 minutes illumination between 10°C and 40°C ambient temperature following a 16 hour charge, the unit is faulty and steps should be taken to rectify the fault.

- TWELVE MONTHLY - Clean all light-emitting/ reflecting surfaces.
- FIVE YEARS TEST - Check fitting runtime against L70 lifetime and determine if it is still suitable for use.

NOTE: The 6 monthly test should be undertaken wherever possible at times of least risk (e.g. during daylight hours). This is because of the possibility of a failure of the normal lighting supply whilst the battery is discharged).

### SENTINEL USER GUIDE

**To enable** sentinel functionality, move the switch on the control board to the "S" position

When the fitting is first powered up with sentinel active, sentinel will initialize the fitting. This is a quick check to ascertain that the fitting can function correctly when AC is cut off.

**If the initialization fails**, the yellow sentinel indicator on the fitting will blink continuously until the fault is rectified and the sentinel switch is toggled.

- Check that battery is connected
- And fitting has been correctly installed
- Toggle sentinel switch in the control board to off and back to on position
- Fitting will reinitialize

**Upon a successful initialization**, the fitting will run a commissioning test after 16 hrs of charging, followed by a 90 mins test being scheduled 91 days after a successful commissioning.

**If the commissioning test fails**, the yellow sentinel indicator will blink continuously (0.5sec on, 0.5sec off) and sentinel will schedule another commission test to run in the next 16 hrs.

Commissioning tests will continue to run after every 16 hrs until a successful test has been recorded.

**NOTE:** Ensure that there are no power interruptions to the site 16 hrs before the commissioning test to allow the fitting to be fully charged.

**Clearing fault display.** After rectifying the fault, push and release the test button 4 times<sup>[1]</sup> in 7 secs to clear the yellow LED fault display. This action will turn off the yellow LED and it would remain off until the next scheduled test. After which it would display the results of the last test.

**To reset a fitting;** with the fitting powered up, move the sentinel switch to the off position, wait 30 secs and move the sentinel switch back to the on position.

This action causes the fitting to factory reset. Any previous stored test will be deleted, and the 91 days schedule will be reset. The fitting will re-commission itself.

### Requesting tests

Two types of test can be manually requested.

- A quick test**

A quick test is a 5 sec test usually used during installation to check that the battery, lamp etc. are properly installed. It runs the fitting in emergency mode for 5 secs.

To initiate a quick test. Press and release the test switch 3 times<sup>[1]</sup> in 7 secs.

- A 90-minute Standard test**

To initiate a 90-minute test, push the test button 2 times<sup>[1]</sup> within 7 secs. Sentinel will acknowledge the command by causing the yellow indicator to blink rapidly for 5 secs.

The requested test will run after allowing battery to fully charge.

**Note:** Manually requesting a 90 min test will reset the 91day schedule. To synchronize the test schedule of fittings in an area, toggle mains on and off twice from the circuit breaker to manually request a standard test. The next scheduled standard test will run at the same time for all fittings on that circuit.

[1] : Button pressed (power cut) for a minimum of 490ms, button released (power restore) for a minimum of 320ms.