

**PRODUCT CATALOGUE**  
Edition 2021



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# COMPANY PROFILE

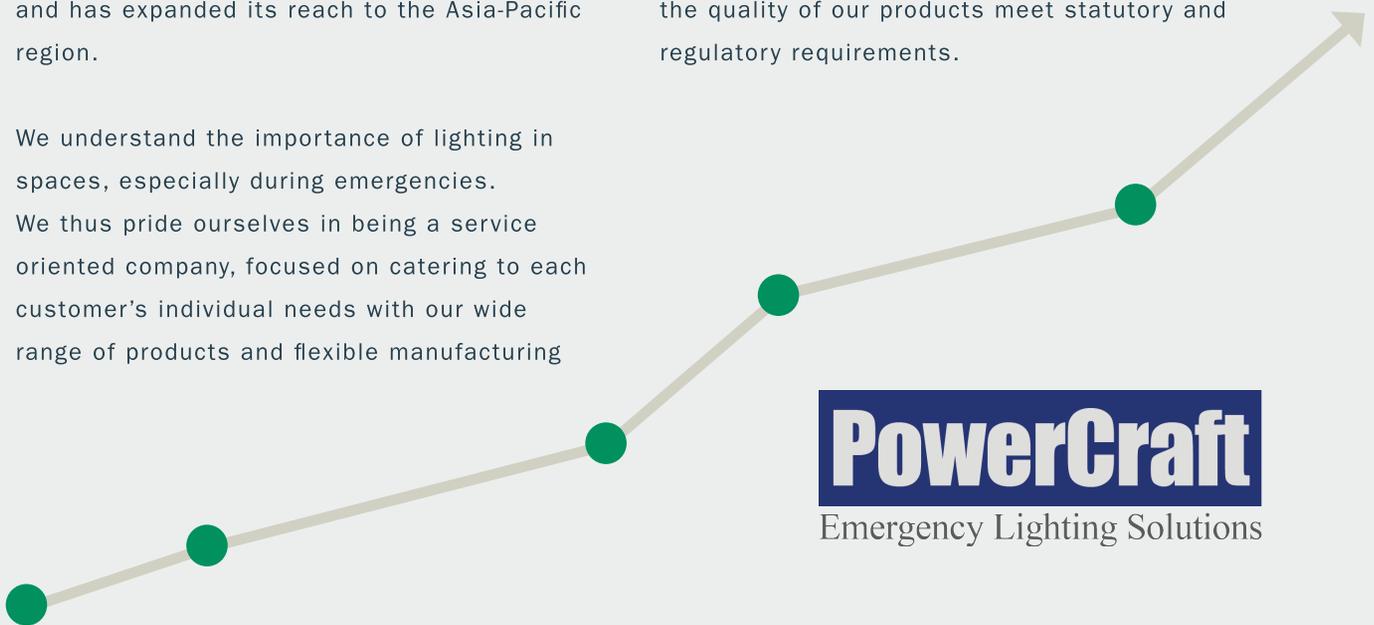
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PowerCraft Electronics Pte Ltd is dedicated to provide a complete range of emergency lighting products. We promise high quality, reliable, innovative and technologically advanced products that fully comply to Singapore and European Safety standards for emergency lighting applications. Leveraging on innovative technologies and a wide knowledge of customer's insights, we deliver integrated solutions to ensure that we take care of all our customers' needs and concerns.

Since 2000, PowerCraft Electronics has since established a strong presence in Singapore, and has expanded its reach to the Asia-Pacific region.

We understand the importance of lighting in spaces, especially during emergencies. We thus pride ourselves in being a service oriented company, focused on catering to each customer's individual needs with our wide range of products and flexible manufacturing

facilities. On top of that, our manufacturing facilities are ISO9001 certified, meaning that the quality of our products meet statutory and regulatory requirements.



**PowerCraft**  
Emergency Lighting Solutions

## PRODUCTS THAT MATTER TO PEOPLE

Two fundamental beliefs of our company are innovation, and having a people-centric approach. Our company is dedicated to producing emergency lighting technologies that are reliable and give our customers a sense of dependability. To ensure this, we have a deep understanding of what people need in stressful situations.

**This sets us apart, and makes us PowerCraft Electronics.**



# EVACUATION ROUTE

## GENERAL EMERGENCY LIGHTING REGULATIONS & APPLICATIONS (SINGAPORE LOCAL STANDARDS)

### 1) Mounting Height

Emergency exit signs ( other than low-mounted graphical symbol signs ) shall be positioned **between 2m and 2.5m above floor level**. If this is not possible, the relevant authority should be consulted.

### 2) Positioning

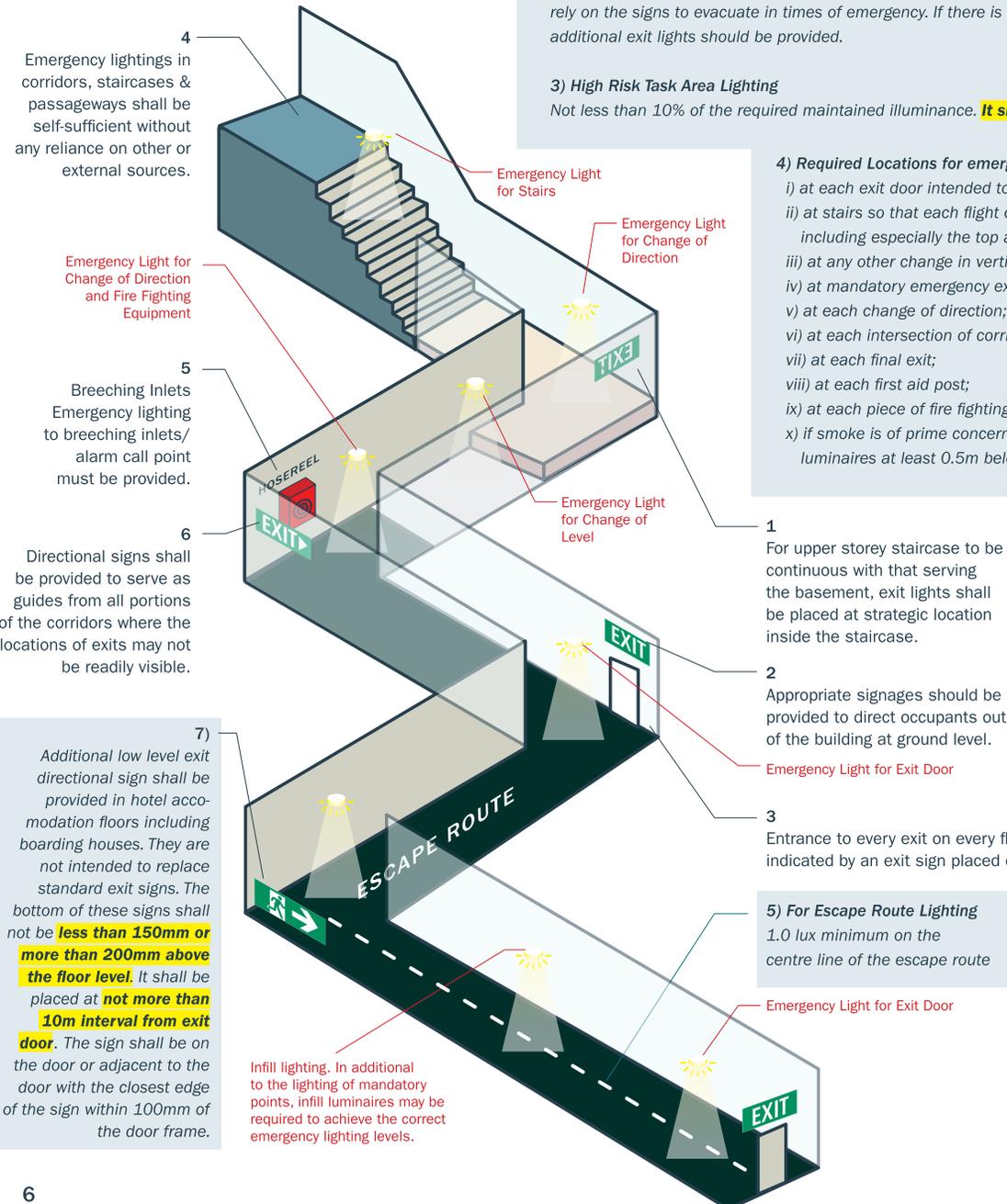
Whether in factory , warehouse premises , shopping centre or institutional occupancy area, exit directional signs are to be placed at strategic locations so that members of public can rely on the signs to evacuate in times of emergency. If there is a need for better direction, additional exit lights should be provided.

### 3) High Risk Task Area Lighting

Not less than 10% of the required maintained illuminance. **It shall not be less than 15 lux.**

### 4) Required Locations for emergency escape lighting:

- i) at each exit door intended to be used in an emergency;
- ii) at stairs so that each flight of stairs receives direct light including especially the top and the bottom steps;
- iii) at any other change in vertical level;
- iv) at mandatory emergency exits and safety sign locations;
- v) at each change of direction;
- vi) at each intersection of corridors;
- vii) at each final exit;
- viii) at each first aid post;
- ix) at each piece of fire fighting equipment and call point;
- x) if smoke is of prime concern, it is recommended to mount luminaires at least 0.5m below the ceiling



4  
Emergency lightings in corridors, staircases & passageways shall be self-sufficient without any reliance on other or external sources.

Emergency Light for Change of Direction and Fire Fighting Equipment

5  
Breaching Inlets  
Emergency lighting to breaching inlets/ alarm call point must be provided.

6  
Directional signs shall be provided to serve as guides from all portions of the corridors where the locations of exits may not be readily visible.

7)  
Additional low level exit directional sign shall be provided in hotel accommodation floors including boarding houses. They are not intended to replace standard exit signs. The bottom of these signs shall not be **less than 150mm or more than 200mm above the floor level**. It shall be placed at **not more than 10m interval from exit door**. The sign shall be on the door or adjacent to the door with the closest edge of the sign within 100mm of the door frame.

Infill lighting. In addition to the lighting of mandatory points, infill luminaires may be required to achieve the correct emergency lighting levels.

1  
For upper storey staircase to be continuous with that serving the basement, exit lights shall be placed at strategic location inside the staircase.

2  
Appropriate signages should be provided to direct occupants out of the building at ground level.

3  
Entrance to every exit on every floor shall be clearly indicated by an exit sign placed over the exit door.

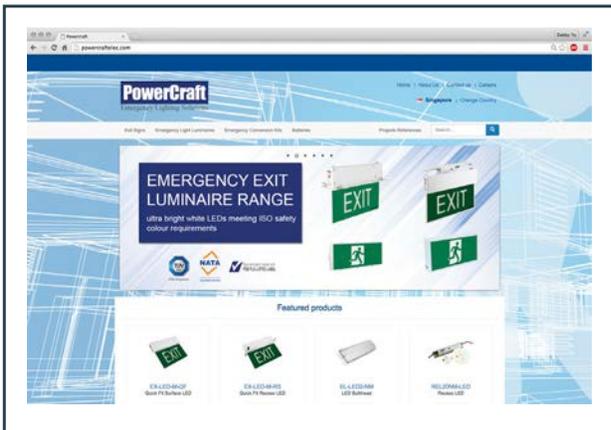
5) For Escape Route Lighting  
1.0 lux minimum on the centre line of the escape route

6)  
Exit sign placement shall be such that no point along the exit route is more than 30m from the visible sign.

8) FOR OPEN AREA (ANTI-PANIC LIGHTING)  
The horizontal illuminance shall not be **≤0.5 lux on the floor level at each point** of the empty core area which excludes a border of 0.5m of the perimeter of the area.

\*\*Resources from FIRE CODE 2018 HANDBOOK Chapter 18 & SS563

# PRODUCTS & SERVICES



## WEBSITE AND PRODUCT DATABASE

The PowerCraft website includes all relevant information, from product descriptions, technical data and dimensional information. For each product, the data sheet in PDF format is available for downloading.

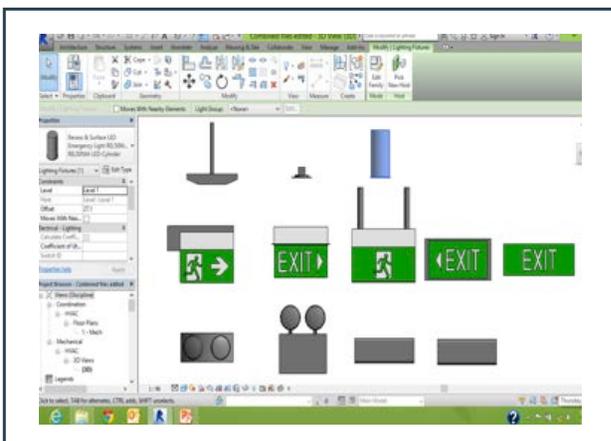
[www.powercraftelec.com](http://www.powercraftelec.com)



## DIALux

DIALux is a globally used programme for planning lighting installations. The visualisation of building situations, light distribution patterns and calculation results make it easy to plan an emergency lighting system using PowerCraft emergency luminaires.

Photometric data for PowerCraft's emergency luminaires are available on request.



## Revit

High-grade, energy-efficient buildings are planned and managed using this powerful software. In the process, designs are modified or re-designed by simply clicking or using the drag&drop function. For a number of luminaires, 3D files for Autodesk Revit are available, including extensive product information such as dimensions and energy consumption. As soon as the luminaires are positioned, the beam patterns are displayed and the installed load is calculated.

PowerCraft's Revit BMI models are available on request.

# PORTFOLIO

WE WORK WITH PROJECTS ACROSS DIFFERENT INDUSTRIES SUCH AS HEALTH INSTITUTES, COMMERCIAL BUILDINGS, EDUCATIONAL INSTITUTES AND RESIDENTIAL PROJECTS. OUR PRODUCTS ARE INSTALLED IN THESE BUILDINGS.

## OFFICE / COMMERCIAL

Fusionopolis  
Robinson Tower  
HP Office  
AXA Tower  
West Connect Building  
Vision Exchange  
Proxima  
Novabay  
UOB Plaza  
Maybank Tower  
PSB Academy  
AIA Alexandra  
Eco-Tech @ Sunview  
Coca Cola Office  
CT Hub 1 & 2  
Link @ AMK  
Synergy @ KB  
Sunray Headquarter  
Space @ Tampines

## AIRPORT

Changi Airport Terminal 4

## HOTEL

Shangri-La Hotel  
Orchid Hotel  
Mercure Bugis Hotel  
Park Hotel Alexandra  
Orchard Hotel  
Oasis Hotel  
Grand Copthorne Waterfront Hotel  
V Hotel Lavender

## EDUCATION INSTITUTES

Pei Chun Public School  
German European School Singapore  
Singapore American School  
Anchorgreen Primary School  
Pei Ying Primary School  
CHIJ- Mont- Monfort Junior School  
Pei Tong Primary School  
Nanyang Technological University  
Ngee Ann Polytechnic  
National University of Singapore

Singapore Polytechnic  
United World College  
Meridian Primary School  
Boon Lay Garden Primary School  
Geylang Methodist Primary School  
Haig Girl School  
ITE College Central  
Tanglin Trust School  
Nanyang Polytechnic

## CONDOMINIUM

DUO Residences  
The Trizon Condo  
8 @ Woodleigh  
Sims Urban Oasis  
Oxley Rise Condo  
Alex Residences  
Flamingo Valley Condo  
New Futura  
Belgravia Villas  
VUE 8 Residences  
Riverbank Condo  
Santorini Condo  
Parc Olympia Condo  
City Suites Condo  
The Panorama Condo  
6 Derbyshire Condo  
Ascent 456 Condo  
The Scotts Tower Condo  
Sea Horizon Condo  
The Topiary  
Riversail Condo  
Eco Sanctuary  
Goodwood Residences  
Silversea Condo  
Jewel Condo  
Hillsta Condo  
Double Bay Condo  
Starlight Condo  
Seawind Condo

## SHOPPING MALL

Funan  
Hillion Mall  
Plaza Singapura  
Big Box  
Wisma Atria  
Resorts World Sentosa  
Alexandra Central Mall  
HillV2 Mall

Bugis Junction  
Paragon  
Raffles City Shopping Centre  
Bedok Mall  
Tampines Mall

## GOVERNMENT

State Courts  
Bidadari C6-C7 HDB  
Sungei Seletar Bus Depot  
Hougang N9C16 HDB  
Sembawang N3C8 HDB  
Sembawang N3C7 HDB  
Yishun N4C17 HDB  
Hougang N9C20 HDB  
Bukit Batok N4C13 HDB  
Jurong West N1C31 HDB  
Singapore Power Cable Tunnel, Bedok  
South Station  
Nee Soon Camp  
Jurong Fire Station  
Woodlands Nursing Home  
Chai Chee Nursing Home  
Hougang N9C19 HDB  
Sembawang Nursing Home  
Kranji Camp  
Punggol East C35 HDB  
Changi Prison  
Nee Soon Camp  
Queenstown C25A HDB  
Clementi N4C10 HDB  
Tiong Bahru Community Centre  
Tampines N4C28 HDB  
Margaret Nursing Home  
Singpost Loghub @ Greenwich  
West Coast Community Centre  
DSTA Office  
River Safari  
Clementi Fire Station

## HEALTHCARE

National Centre for Infectious Disease  
Khoo Teck Puat Hospital  
NUH Medical Centre  
Tan Tock Seng Hospital  
St's Andrew Community Hospital  
Mount Alvernia Hospital  
Changi Hospital  
Ren Ci Hospital  
National Heart Centre

# OVERSEAS PROJECT

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## BRUNEI

National Cancer Centre

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## HONG KONG

Landmark Mandarin Oriental @ Central

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## INDONESIA

Telkom Tower @ Jakarta  
DoubleTree Hotel @ Jakarta  
Widya Mandala Catholic University  
Menara Astra

## INDONESIA, BOGOR

Indofood Palembang

## INDONESIA, BANDUNG

Maranata Universitas

## INDONESIA, CILEGON

Krakatau Nippon Steel Sukimin

## INDONESIA, DEPOK

Merc Ui  
UI Project

## INDONESIA, JAKARTA

Permata Bank Metropolitan  
Atlanta  
Pt. Dbilder Indonesia  
NPCT1  
City Bank  
City Bank South Quarter  
AAJI

Samuel GF & MZ  
Bank Danamon  
Podomoro  
Nayang School  
Pt. Inti Indah  
UNJ Pasca Sarjana  
Summitmas  
Roki  
Hotel Swis  
Manulife  
Samsung tugu  
Cargil  
Kapital  
AIA Center  
DBS Samarinda  
Sunlife  
Alam Sutra  
Dinas Perhubungan  
Restaurant Lyman Office  
B Braun Poject  
Invetory - IWE  
Pasific Place  
Project Manhattan Square  
PGN  
Wika

## INDONESIA, KARAWANG

Pt. Chemco Harapan Nusantara

## INDONESIA, TANGGERANG

PMDK

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## MACAU

Mandarin Oriental Hotel Macau  
Mandarin Oriental Hotel

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## MYANMMAR

Coca Cola HQ

## PHILIPPINES

One World Place @ BGC Taguig, Manila  
World Plaza @ BGC Taguig, Manila  
Asian Hospital and Medical Center @ Manila  
Manila Bay Resort  
Palladium Store  
Winford Hotel and Casino  
Marriot West Wing Hotel @ Manila  
Resort World @ Manila

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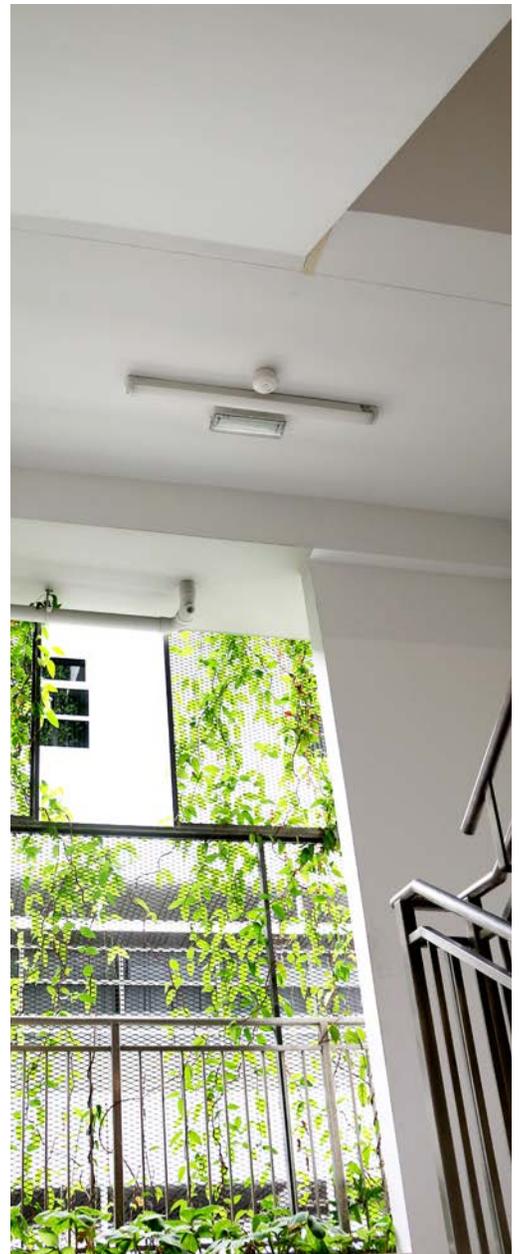
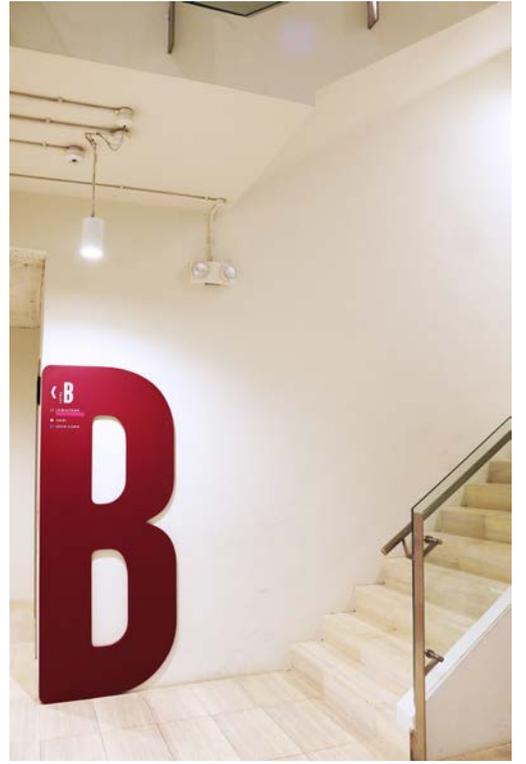
## QATAR, DOHA

Al Nakilat Office  
Al Meera Department stores  
Al Udeid base in various projects  
Flix Cinema  
Schools @ Al Khor  
Schools @ Sailyah  
Schools @ Rawdat  
Schools @ Umquran  
Hamad Medical Corporation  
Sewage Treatment Plant, Lusail  
Development  
Energy Centre  
Lusail Pumping Station  
Qatar Olympic Committee  
Woqod

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## VIETNAM

Xuyên Mộc Tax Office  
B.Braun Manufacturing Plant  
Long Hau Factory  
Masan Factory @ Hậu Giang  
Vista Verde Condominium  
Novotel Phu Quoc  
The Krista Condominium  
Juraron Industries  
TOTO Vietnam Factory  
Park Hyatt Saigon Hotel  
Beverage Factory  
Sheraton Hotel  
TC Motor Vietnam



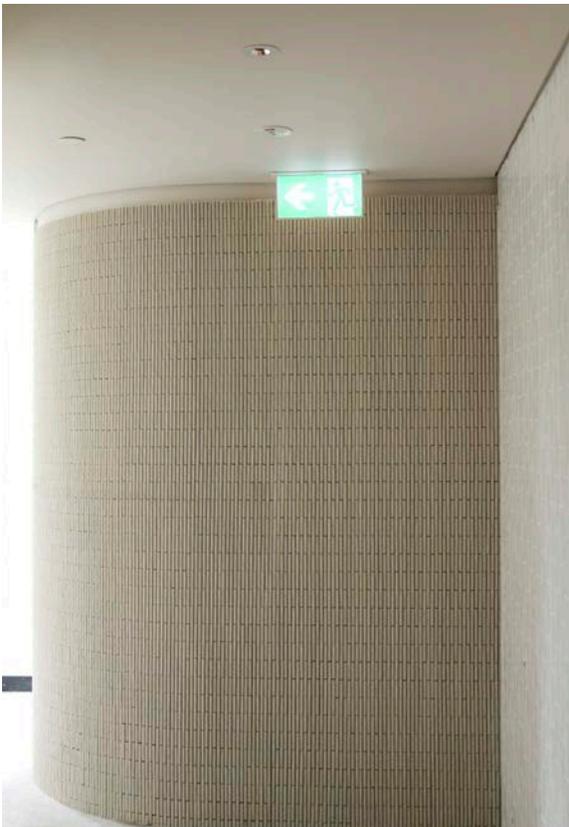
# HOLISTIC APPROACH

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PowerCraft Electronics' emergency lighting appliances act as a beacon to safety during times of emergency. Our exit signs, emergency light luminaires, emergency conversion kits, and batteries make sure that you're sufficiently prepared.

Lights play a critical role in times of emergency or power outage. We've ensured that our products are easy to use, reliable and above all long lasting.

Here in Powercraft, we are interested to work with our customers in providing high quality emergency lighting because we are aware of the user's responsibility towards every building they are working on. We are also specialized in customizing emergency lighting solutions according to what our clients need other than ensuring what we proposed is in line with the relevant standards.



# EXIT LUMINAIRE RANGE

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PowerCraft Electronics' Exit Luminaire Range consists of long life white LEDs that meet international standards. They deliver up to 85% energy saving compared with traditional fluorescent lamps, and are maintenance free without any compromise on light quality. They are also guaranteed to light up even in the darkest of times. The Exit Luminaires that Powercraft are providing ranges from aesthetically pleasing designs to exit luminaires with higher protection rating.





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EX-LED-M-RS  
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EXB-LED-M  
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EXB-LED-M-WP  
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# EX-LED-M-QF QUICK FIT SURFACE LED

AESTHETIC AND FUNCTIONAL ASPECTS  
ARE MET BY THE QUICK FIT DESIGN



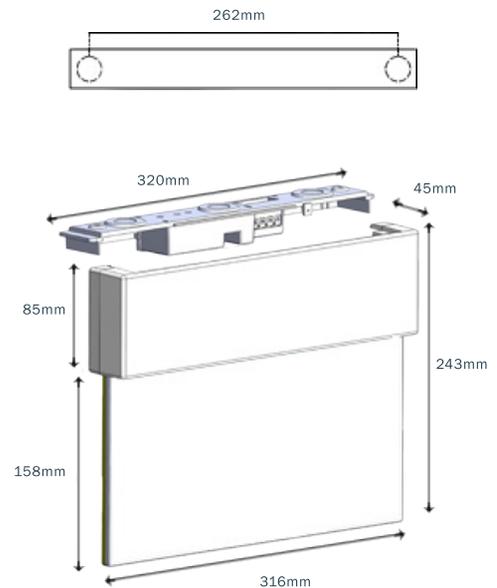
## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>EX-LED-M-QF</b>
<b>Mode of Operation:</b>	Maintained
<b>Lamp:</b>	1.2W White LED module with burning life-span > 50,000 hours
<b>Rated Duration:</b>	3 Hours
<b>Mains Supply:</b>	220-240 Volts, 50-60Hz
<b>Power Consumption:</b>	3W (Total standby power inclusive of LED converter)
<b>Battery:</b>	High Temperature Nickel Cadmium
<b>Charger:</b>	Regulated variable rate
<b>Charge Monitor:</b>	LED
<b>Test Facility:</b>	Micro switch
<b>Mounting:</b>	Surface wall / Suspended / Surface ceiling
<b>Safety Features:</b>	Low battery voltage cut off to prevent over discharge
<b>Diffuser:</b>	Acrylic plate (fire retardant)
<b>Fitting Construction:</b>	Injection moulded with fire retardant (UL94), high impact material
<b>Weight:</b>	Approx. 1.2 Kg
<b>Dimensions:</b>	243mm (H) x 320mm (W) x 45mm (D)
<b>Standards / Compliance:</b>	SS IEC 60598-2-22, SS 563

### Ordering Guide:

Legend	Single Sided	Double Sided
	EX-LED-M-QF-S-RM	EX-LED-M-QF-D-RM
	EX-LED-M-QF-SR-RM	EX-LED-M-QF-DR-RM
	EX-LED-M-QF-SL-RM	EX-LED-M-QF-DL-RM
	EX-LED-M-QF-S	EX-LED-M-QF-D
	EX-LED-M-QF-SR	EX-LED-M-QF-DR
	EX-LED-M-QF-SL	EX-LED-M-QF-DL

- Designed for fast installation and easy maintenance.
- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds SS IEC 60598-2-22 and SS 563 brightness requirements
- Extra low power consumption
- High Quality , Long Life SMD LED module
- Numerous installations options available
- Series connection of LEDs achieve a high level of uniform light distribution and ensuring maximum life span.
- Low battery voltage cut-off with latch function , to eliminate battery over discharge.
- Durable fire retardant construction ( UL 94 ) to combat corrosion
- Lightweight ergonomics design boost productivity of installers.



CLASS II



Type and batch tested with PSB PLS-LISTED LABEL

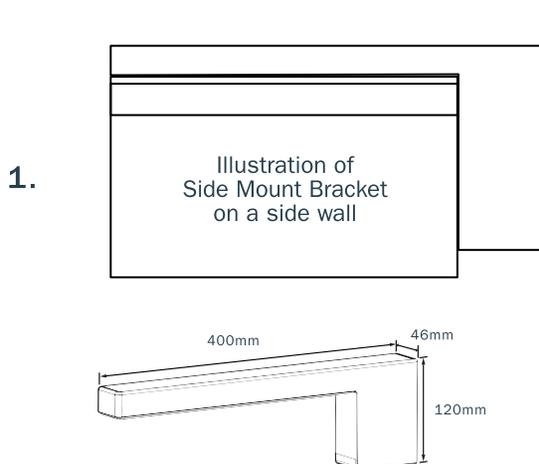
\*\*\*Note: Technical Specification subject to change without prior notice

# ACCESSORIES for EX-LED-M-QF



## SIDE MOUNT BRACKET

When exit signs cannot be installed above the door or on the ceiling due to visual and technical reasons, our side mount bracket is able to provide solution to do side mounting on the wall.



\*\*\*Note: Technical Specification subject to change without prior notice

## Ordering Guide (With Side Mount):

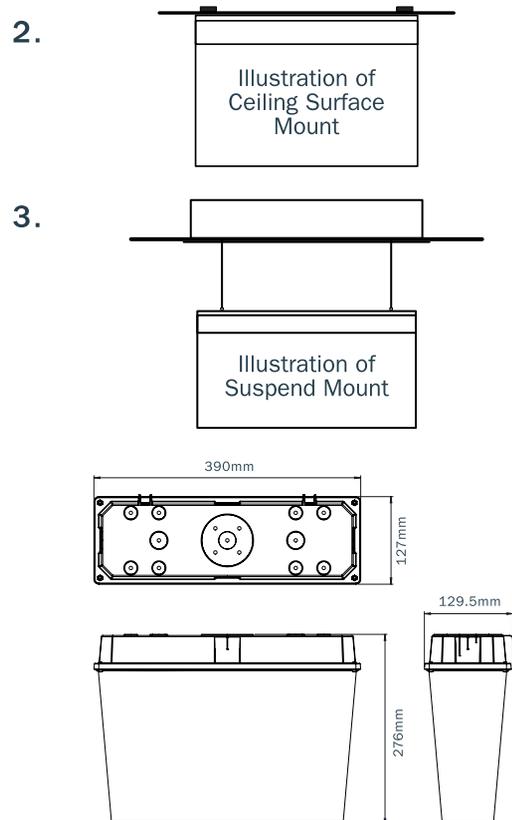
Legend	Single Sided	Double Sided
	EX-LED-M-QF-SIDE-S-RM	EX-LED-M-QF-SIDE-D-RM
	EX-LED-M-QF-SIDE-SR-RM	EX-LED-M-QF-SIDE-DR-RM
	EX-LED-M-QF-SIDE-SL-RM	EX-LED-M-QF-SIDE-DL-RM
	EX-LED-M-QF-SIDE-S	EX-LED-M-QF-SIDE-D
	EX-LED-M-QF-SIDE-SR	EX-LED-M-QF-SIDE-DR
	EX-LED-M-QF-SIDE-SL	EX-LED-M-QF-SIDE-DL

## Ordering Guide (With Waterproof Enclosure):

Legend	Single-Sided	Double Sided
	EX-LED-M-QF-S-RM-WP-SC-ENC	EX-LED-M-QF-D-RM-WP-SC-ENC
	EX-LED-M-QF-SR-RM-WP-SC-ENC	EX-LED-M-QF-DR-RM-WP-SC-ENC
	EX-LED-M-QF-SL-RM-WP-SC-ENC	EX-LED-M-QF-DL-RM-WP-SC-ENC
	EX-LED-M-QF-S-WP-SC-ENC	EX-LED-M-QF-D-WP-SC-ENC
	EX-LED-M-QF-SR-WP-SC-ENC	EX-LED-M-QF-DR-WP-SC-ENC
	EX-LED-M-QF-SL-WP-SC-ENC	EX-LED-M-QF-DL-WP-SC-ENC

## WEATHERPROOF ENCLOSURE

This weatherproof enclosure can assist in providing double-sided signage in wet or dusty areas and to meet local standards. The weatherproof enclosure can be mounted as followed:



# EX-LED-M-RS QUICK FIT RECESS LED

COLLABORATING SAFETY WITH STYLE IN AN EMERGENCY BY THE QUICK FIT DESIGN



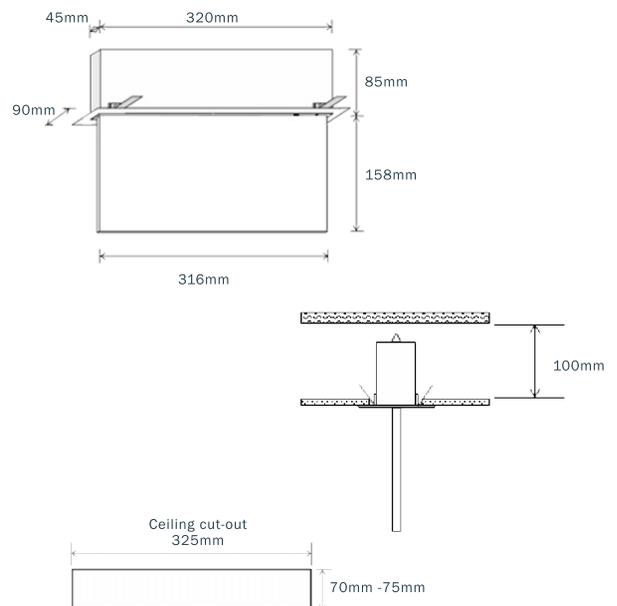
### Ordering Guide:

Legend	Single Sided	Double Sided
	EX-LED-M-RS-S-RM	EX-LED-M-RS-D-RM
	EX-LED-M-RS-SR-RM	EX-LED-M-RS-DR-RM
	EX-LED-M-RS-SL-RM	EX-LED-M-RS-DL-RM
	EX-LED-M-RS-S	EX-LED-M-RS-D
	EX-LED-M-RS-SR	EX-LED-M-RS-DR
	EX-LED-M-RS-SL	EX-LED-M-RS-DL

- Designed for fast installation and easy maintenance.
- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds SS IEC 60598-2-22 and SS 563 brightness requirements
- Extra low power consumption
- High Quality , Long Life SMD LED module
- Series connection of LEDs achieve a high level of uniform light distribution and ensuring maximum life span.
- Low battery voltage cut-off with latch function , to eliminate battery over discharge.
- Durable fire retardant construction ( UL 94 ) to combat corrosion
- Lightweight ergonomics design boost productivity of installers.

### TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>EX-LED-M-RS</b>
Mode of Operation:	Maintained
Lamp:	1.2W White LED module with burning life-span > 50,000 hours
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	3W (Total standby power inclusive of LED converter)
Battery:	High Temperature Nickel Cadmium
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Mounting:	Recessed Ceiling
Safety Features:	Low battery voltage cut off to prevent over discharge
Diffuser:	Acrylic plate (fire retardant)
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact material
Weight:	Approx. 1.2 Kg
Dimensions:	243mm (H) x 320mm (W) x 45mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563



CLASS II



Type and batch tested with PSB PLS-LISTED LABEL

\*\*\*Note: Technical Specification subject to change without prior notice

# EX-SB-M SLIM-QUICK FIT BLADE EXIT

**AESTHETIC, FUNCTIONAL AND  
COMPACT DESIGN**



## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>EX-SB-M</b>
Mode of Operation:	Maintained
Lamp:	White LED module with burning life-span > 100,000 hours
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	2.5W (Total standby power inclusive of LED converter)
Battery:	High Temperature Nickel Cadmium / High Temperature Lithium LiFePO4
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Mounting:	Surface wall / Suspended / Surface ceiling / Recessed Ceiling
Safety Features:	Low battery voltage cut off to prevent over discharge
Diffuser:	Acrylic plate (fire retardant)
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact material
Weight:	Approx. 0.6 Kg
Dimensions:	223mm (H) x 314mm (W) x 37mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563

### Ordering Guide:

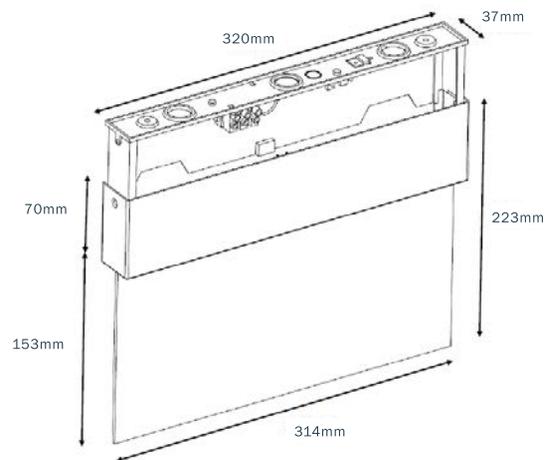
Legend	Single Sided	Double Sided
	EX-SB-M-S-RM	EX-SB-M-D-RM
	EX-SB-M-SR-RM	EX-SB-M-DR-RM
	EX-SB-M-SL-RM	EX-SB-M-DL-RM
	EX-SB-M-S	EX-SB-M-D
	EX-SB-M-SR	EX-SB-M-DR
	EX-SB-M-SL	EX-SB-M-DL

### ACCESSORY: RECESS MOUNT KIT

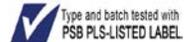
### Ordering Guide:

EX-SB-RC-ASSY

- Designed for fast installation and easy maintenance.
- Extra low power consumption
- High quality, Long Life SMD LED module
- Numerous installations options available
- Low battery voltage cut-off with latch function, to eliminate battery over discharge
- Durable fire retardant construction (UL 94)
- Lightweight ergonomic design boost productivity of installers



CLASS II



\*\*\*Note: Technical Specification subject to change without prior notice

# EXB-LED-M-WP WEATHERPROOF LED

WELL-EQUIPPED EXIT LIGHT THAT  
DEFIES HARSH ENVIRONMENTAL  
CONDITIONS.



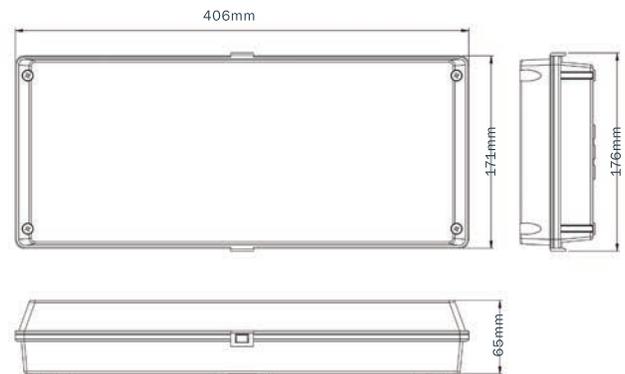
## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>EXB-LED-M-WP</b>
Mode of Operation:	Maintained
Lamp:	1.2W White LED module with burning life-span > 50,000 hours
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	3W (Total standby power inclusive of LED converter)
Battery:	High Temperature Nickel Cadmium
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Mounting:	Surface wall / Semi-recessed wall
Safety Features:	Low battery voltage cut off to prevent over discharge
Diffuser:	Injection moulded with fire retardant (UL94), high impact material
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact material
Weight:	Approx. 1.2 Kg
Dimensions:	171mm (H) x 406mm (W) x 65mm (D)
Standards /	SS IEC 60598-2-22, SS 563

### Ordering Guide:

Legend	Single Sided
	EXB-LED-M-WP-S-RM
	EXB-LED-M-WP-SR-RM
	EXB-LED-M-WP-SL-RM
	EXB-LED-M-WP-S
	EXB-LED-M-WP-SR
	EXB-LED-M-WP-SL

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds SS IEC 60598-2-22 and SS 563 brightness requirements
- Extra low power consumption
- High Quality , Long Life SMD LED module
- Series connection of LEDs achieve a high level of uniform light distribution and ensuring maximum life span.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.



CLASS II



Type and batch tested with  
PSB PLS-LISTED LABEL

IP65

\*\*\*Note: Technical Specification subject to change without prior notice

# EX-LED-M SLIMLINE LED

**SLIM FRAMELESS EXIT SIGN WITH  
NUMEROUS INSTALLATION OPTIONS**



## TECHNICAL SPECIFICATIONS

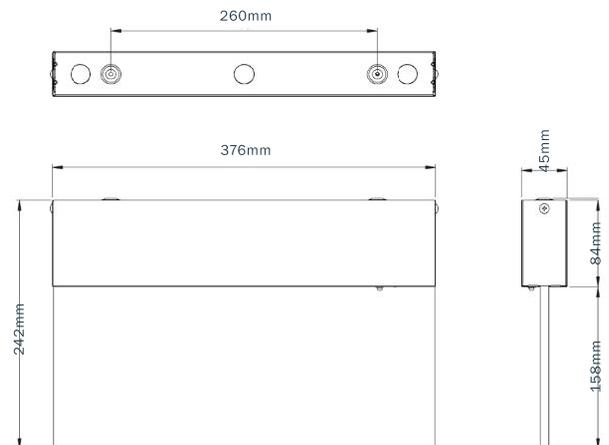
<b>MODEL NO:</b>	<b>EX-LED-M</b>
<b>Mode of Operation:</b>	Maintained
<b>Lamp:</b>	1.2W White LED module with burning life-span > 50,000 hours
<b>Rated Duration:</b>	3 Hours
<b>Mains Supply:</b>	220-240 Volts, 50-60Hz
<b>Power Consumption:</b>	3W (Total standby power inclusive of LED converter)
<b>Battery:</b>	High Temperature Nickel Cadmium
<b>Charger:</b>	Regulated variable rate
<b>Charge Monitor:</b>	LED
<b>Test Facility:</b>	Micro switch
<b>Mounting:</b>	Surface mount (Recessed mount option available)
<b>Safety Features:</b>	Low battery voltage cut off to prevent over discharge
<b>Diffuser:</b>	Acrylic plate (fire retardant)
<b>Fitting Construction:</b>	Electro galvanized steel. Epoxy powder coating for casing and gear tray
<b>Weight:</b>	Approx. 1.2 Kg
<b>Dimensions:</b>	242mm (H) x 376mm (W) x 45mm (D)
<b>Standards / Compliance:</b>	SS IEC 60598-2-22, SS 563

\*\*\*Note: Technical Specification subject to change without prior notice

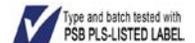
### Ordering Guide:

Legend	Single Sided	Double Sided
	EX-LED-M-S-RM	EX-LED-M-D-RM
	EX-LED-M-SR-RM	EX-LED-M-DR-RM
	EX-LED-M-SL-RM	EX-LED-M-DL-RM
	EX-LED-M-S	EX-LED-M-D
	EX-LED-M-SR	EX-LED-M-DR
	EX-LED-M-SL	EX-LED-M-DL
	EX-LED-M-SLR	EX-LED-M-DLR

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds SS IEC 60598-2-22 and SS 563 brightness requirements
- Extra low power consumption
- High Quality , Long Life SMD LED module
- Series connection of LEDs provides equal biasing of all LEDs ensures maximum LED life span and uniform light distribution
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Add-on plate for recess mounting.



**CLASS I**



# EXB-LED-M SURFACE BOX LED

COMPACT AND CLASSIC BOX EXIT LIGHT



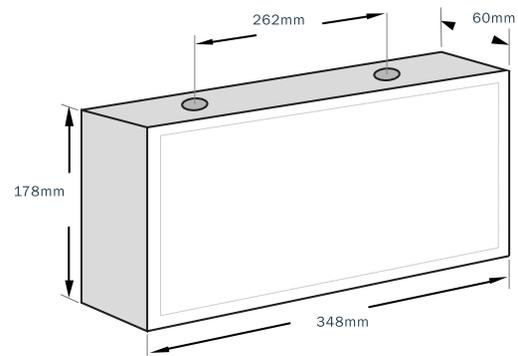
**Ordering Guide:**

Legend	Single Sided
	EXB-LED-M-S-RM
	EXB-LED-M-SR-RM
	EXB-LED-M-SL-RM
	EXB-LED-M-S
	EXB-LED-M-SR
	EXB-LED-M-SL

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds SS IEC 60598-2-22 and SS 563 brightness requirements
- Extra low power consumption
- High Quality , Long Life SMD LED module
- Series connection of LEDs provides equal biasing of all LEDs ensures maximum LED life span and uniform light distribution
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- High efficiency charger and LED converter
- Charge indicator and test switch

**TECHNICAL SPECIFICATIONS**

<b>MODEL NO:</b>	<b>EXB-LED-M</b>
Mode of Operation:	Maintained
Lamp:	1.2W White LED module with burning life-span > 50,000 hours
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	3W (Total standby power inclusive of LED converter)
Battery:	High Temperature Nickel Cadmium
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Mounting:	Suspended / Surface Ceiling / Surface Wall
Safety Features:	Low battery voltage cut off to prevent over discharge
Diffuser:	Acrylic plate (fire retardant)
Fitting Construction:	Electro galvanized steel. Epoxy powder coating for casing and gear tray
Weight:	Approx. 1.5 Kg
Dimensions:	Surface mount: 178mm (H) x 348mm (W) x 60mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563



CLASS I



Type and batch tested with PSB PLS-LISTED LABEL

\*\*\*Note: Technical Specification subject to change without prior notice

# EXB-LED-M-LV RECESS BOX LED

**LOW LEVEL EXIT LIGHT IMPROVE SAFETY  
WHEN SMOKE OBSCURE EXIT LIGHT**



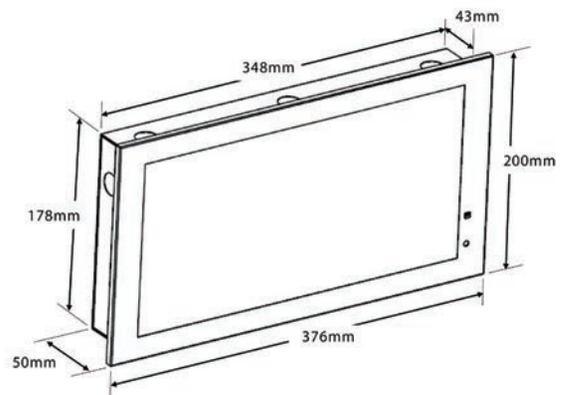
**Ordering Guide:**

Legend	Single Sided
	EXB-LED-M-LV-S-RM
	EXB-LED-M-LV-SR-RM
	EXB-LED-M-LV-SL-RM
	EXB-LED-M-LV-S
	EXB-LED-M-LV-SR
	EXB-LED-M-LV-SL

- Screwless cover
- Suitable for recess mounting at low level escape routes or above doors.
- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds SS IEC 60598-2-22 and SS 563 brightness requirements
- Extra low power consumption
- High Quality , Long Life SMD LED module
- Series connection of LEDs provides equal biasing of all LEDs ensures maximum LED life span and uniform light distribution
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- High efficiency charger and LED converter
- Charge indicator and test switch

**TECHNICAL SPECIFICATIONS**

<b>MODEL NO:</b>	<b>EXB-LED-M-LV</b>
Mode of Operation:	Maintained
Lamp:	1.2W White LED module with burning life-span > 50,000 hours
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	3W (Total standby power inclusive of LED converter)
Battery:	High Temperature Nickel Cadmium
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Mounting:	Recessed Wall Mount
Safety Features:	Low battery voltage cut off to prevent over discharge
Diffuser:	Acrylic plate (fire retardant)
Fitting Construction:	Electro galvanized steel. Epoxy powder coating for casing and gear tray
Weight:	Approx. 1.5 Kg
Dimensions:	Recess mount: 200mm (H) x 376mm (W) x 50mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563



**CLASS I**



Type and batch tested with  
PSB PLS-LISTED LABEL

\*\*\*Note: Technical Specification subject to change without prior notice

# EX-BH-M



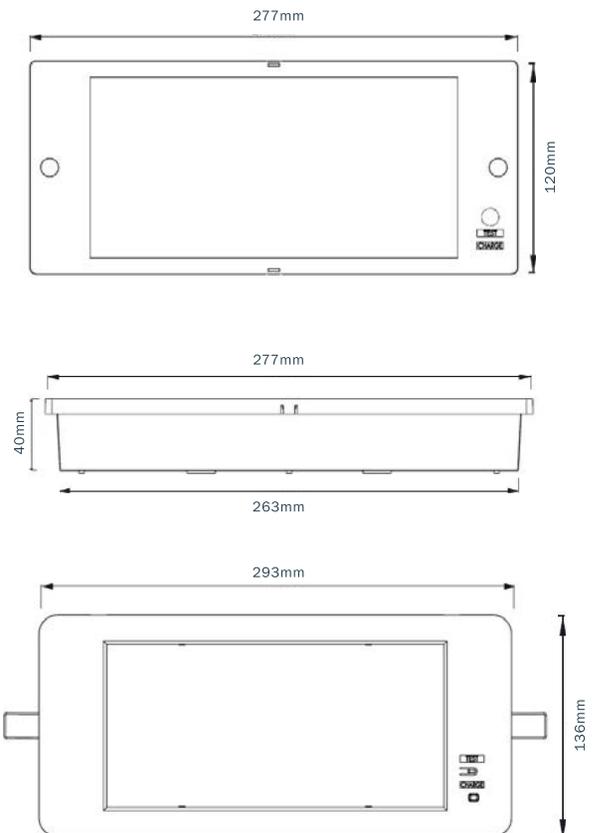
**Ordering Guide:**

Legend	Single Sided	Double Sided
	EX-BH-M-S-RM (S)	EX-BH-M-S-RM (R)
	EX-BH-M-SR-RM (S)	EX-BH-M-SR-RM (R)
	EX-BH-M-SL-RM (S)	EX-BH-M-SL-RM (R)

- Designed for fast installation and easy maintenance.
- High quality, Long Life SMD LED module
- Low heat generation, ensures long and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge
- Lightweight ergonomic design boosting productivity of installers
- Numerous installation options, surface, recess and low-level applications.

**TECHNICAL SPECIFICATIONS**

<b>MODEL NO:</b>	<b>EX-BH-M</b>
Mode of Operation:	Maintained
Lamp:	White LED module with burning life-span > 50,000 hours
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	2.5W
Battery:	High Temperature Nickel Cadmium / High Temperature Lithium LiFePO4
Charger:	Constant Current / Constant Voltage, Short Circuit protected
Charge Monitor:	LED
Test Facility:	Micro switch
Mounting:	Surface / Recess mount
Safety Features:	Low battery voltage cut off to prevent over discharge
Diffuser:	Acrylic plate
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact PC/ABS material
Weight:	Approx. 0.6 Kg
Dimensions:	Surface: 120mm (H) x 277mm (W) x 40mm (D) Surface: 136mm (H) x 293mm (W) x 40mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563



\*\*\*Note: Technical Specification subject to change without prior notice

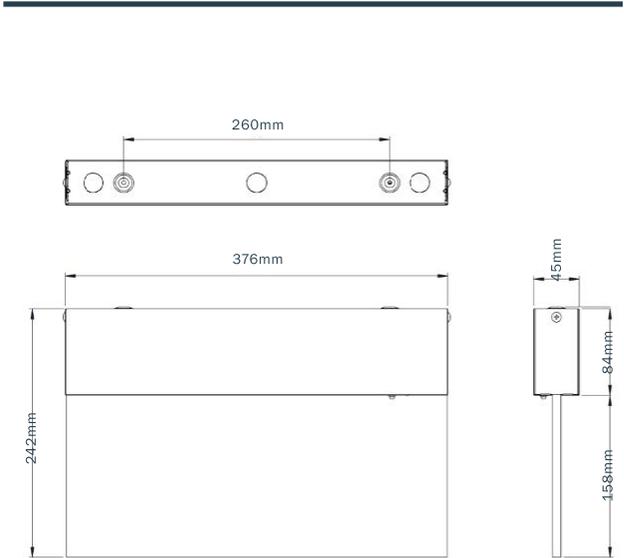
# CUSTOMIZED LED

## CUSTOMIZED FRAMELESS LED SIGNAGE

- Extra low power consumption
- High Quality , Long Life SMD LED module
- Series connection of LEDs provides equal biasing of all LEDs ensures maximum LED life span and uniform light distribution
- Add-on plate for recess mounting.
- Customization of Legends are available:



TECHNICAL SPECIFICATIONS	
<b>MODEL NO:</b>	<b>CUSTOMISED LED</b>
Mode of Operation:	Slave
Lamp:	1.2W White LED module with burning life-span > 50,000 hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	3W (Total standby power inclusive of LED converter)
Mounting:	Surface mount (Recessed mount option available)
Diffuser:	Acrylic plate (fire retardant)
Fitting Construction:	Electro galvanized steel. Epoxy powder coating for casing and gear tray
Weight:	Approx. 1.2 Kg
Dimensions:	242mm (H) x 376mm (W) x 45mm (D)



**CLASS I**

\*\*\*Note: Technical Specification subject to change without prior notice

# EMERGENCY LUMINAIRE RANGE

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Products from our emergency luminaire range are not only stylish but also ensuring that escape routes and exits path within the open area and high risk task are clearly recognisable. Our Recess Emergency Luminaire especially is so discreet and unobtrusive that you will not even realize it's presence but will provide you with the greatest spacing. Most of Powercraft's emergency luminaires have a duration of 3 hours and furthermore when these LEDs are addressed separately from the general lighting, ageing effects are avoided and reliability is increased even further.



**REL10NM-LED-CU**  
PAGE 25



**REL10NM-LED-CY**  
PAGE 26



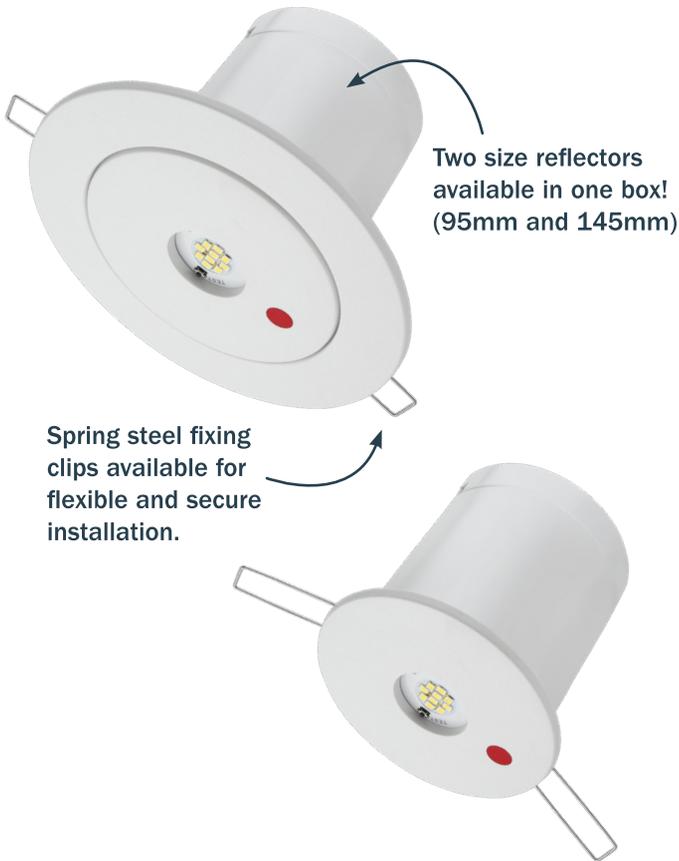
**EL-LED2-NM**  
PAGE 39



**TED10NM**  
PAGE 34

# REL10NM-LED-CU RECESS LED

**MINIMALIST FUSS-FREE DESIGN  
AND YET HIGHLY EFFICIENT**

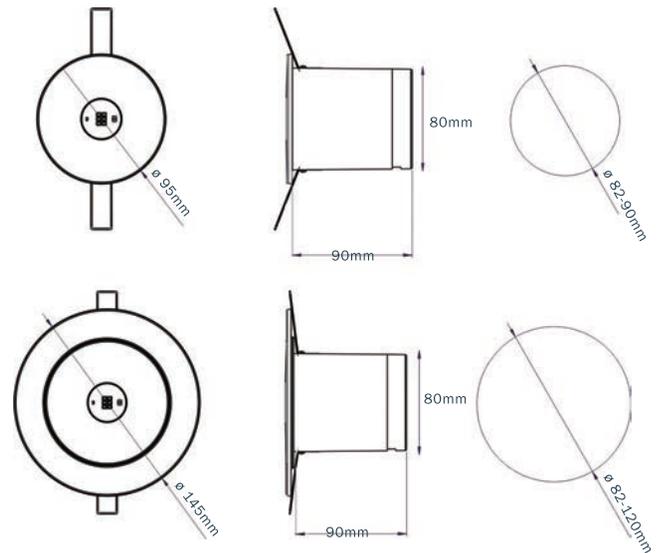


**Ordering Guide:**

Ordering Code

REL10NM-LED-CU

- All In One Compact design for fast installation and easy maintenance.
- Energy savings; Extra low standby power consumption
- Durable fire retardant housing ( UL 94 ) to combat corrosion
- Perfect as Escape Route lighting and Anti-Panic Lighting.
- Maximum Efficiency and perfect light distribution that result to very wide spacing thus lesser number of emergency luminaires are needed in conformity with relevant standards.



**TECHNICAL SPECIFICATIONS**

<b>MODEL NO:</b>	<b>REL10NM-LED-CU</b>
Mode of Operation:	Non-Maintained
Lamp:	3W White LED
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	< 1.5W
Battery:	High Temperature Nickel Cadmium
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact material
Weight:	Approx. 0.4 Kg
Standards / Compliance:	SS IEC 60598-2-22, SS 563, IEC 61347-2-7, IEC 61347-2-13



\*\*\*Note: Technical Specification subject to change without prior notice

# REL10NM-LED-CY SURFACE LED

**SURFACE MOUNT LED DESIGN  
WITHOUT COMPROMISING ON  
PERFORMANCE.**



## TECHNICAL SPECIFICATIONS

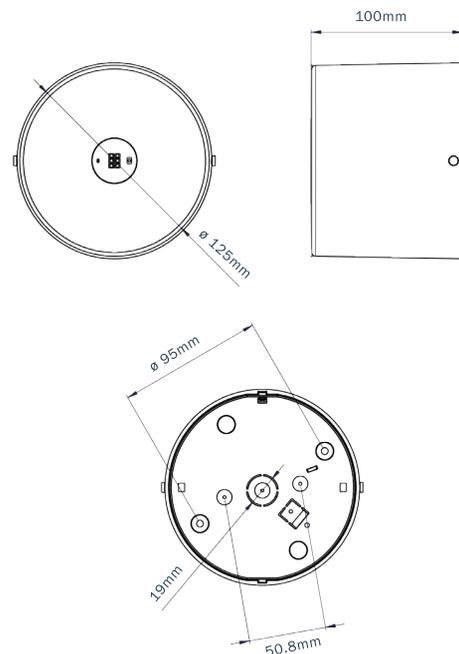
<b>MODEL NO:</b>	<b>REL10NM-LED-CY</b>
Mode of Operation:	Non-Maintained
Lamp:	3W White LED
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	< 1.5W
Battery:	High Temperature Nickel Cadmium
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact material
Weight:	Approx. 0.4 Kg
Standards / Compliance:	SS IEC 60598-2-22, SS 563, IEC 61347-2-7, IEC 61347-2-13

### Ordering Guide:

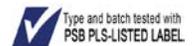
Ordering Code

REL10NM-LED-CY

- All In One Compact design for fast installation and easy maintenance.
- Energy savings; Extra low standby power consumption
- Durable fire retardant housing ( UL 94 ) to combat corrosion
- Perfect as Escape Route lighting and Anti-Panic Lighting.
- Maximum Efficiency and perfect light distribution that result to very wide spacing thus lesser number of emergency luminaires are needed in conformity with relevant standards.



CLASS II



\*\*\*Note: Technical Specification subject to change without prior notice

# REL20NM-LED RECESS LED

**BRIGHTEST STAR THAT SHINES  
IN EVERY ARCHITECT'S DREAM.**



So discreet and unobtrusive that you will not even realize it's presence BUT will provide you the greatest spacing.

## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>REL20NM-LED</b>
Mode of Operation:	Non-Maintained
Lamp:	3W White LED
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	< 1.5W
Battery:	High Temperature Nickel Cadmium
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Aluminium epoxy powder coated reflector, galvanised zinc coated charger housing
Weight:	Approx. 0.3 Kg
Standards / Compliance:	SS IEC 60598-2-22, SS 563

### Ordering Guide:

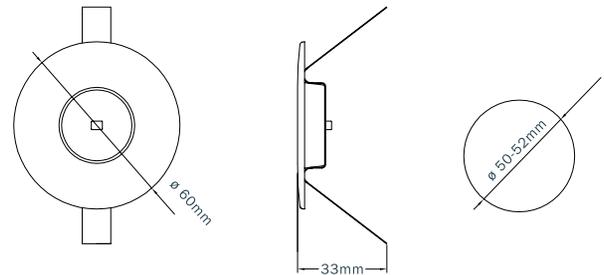
#### Ordering Code

REL20NM-LED-60mm

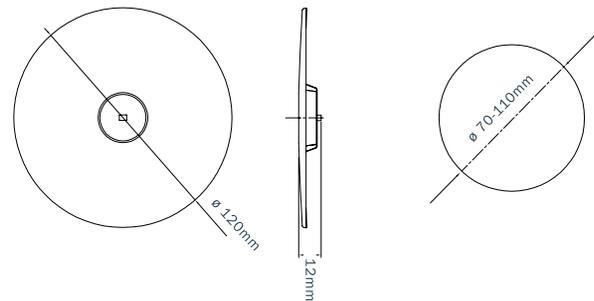
REL20NM-LED-120mm

- Very wide spacing, double of traditional 10W halogen.
- Save up to 2/3 of the number of fittings used.
- Energy savings, extra low standby power consumption.
- Slim casing , fit through 50mm hole.
- Easy Installation and low maintenance

### 60mm Reflector



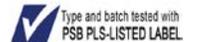
### 120mm Reflector



### REL20NM-LED



CLASS I



\*\*\*Note: Technical Specification subject to change without prior notice

# REL20NM-LED SELF-CONTAINED / SUSTAINED LED

DESIGNED TO DISCREETLY BLEND  
IN WITH YOUR GENERAL LIGHTING.



MINIMOD

MOD

Slide on Module

- Prevents damage to fluorescent or LED lamps as it is independent from voltage and output from the general lighting
- Optimal and uniform light point spacing for anti-panic luminaires and escape route luminaires can be achieved.
- Reliability of the emergency modules is increased as the LED modules are addressed separately from the general lighting therefore aging effects are avoided.
- Easy wiring and full compatibility.

## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>REL20NM-LED</b>
<b>Mode of Operation:</b>	Non-Maintained
<b>Lamp Module:</b>	MINIMOD: 3W, MOD: 3W, Slide on Module: 4W
<b>Rated Duration:</b>	3 Hours
<b>Mains Supply:</b>	220-240 Volts, 50-60Hz
<b>Power Consumption:</b>	< 1.5W
<b>Battery:</b>	High Temperature Nickel Cadmium
<b>Charger:</b>	Regulated variable rate
<b>Charge Monitor:</b>	LED
<b>Test Facility:</b>	Micro switch
<b>Safety Features:</b>	Low battery voltage cut off to prevent over discharge
<b>Fitting Construction:</b>	Galvanised zinc coated charger housing
<b>Weight:</b>	Approx. 0.3 Kg
<b>Standards / Compliance:</b>	SS IEC 60598-2-22, SS 563

### Ordering Guide:

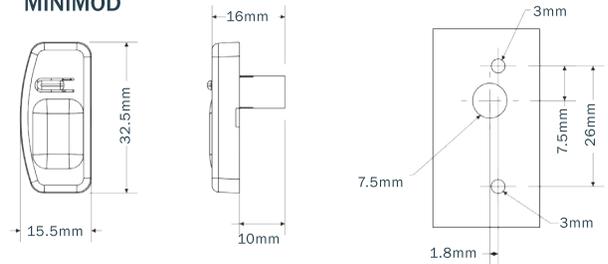
#### Ordering Code

REL20NM-LED-MINIMOD

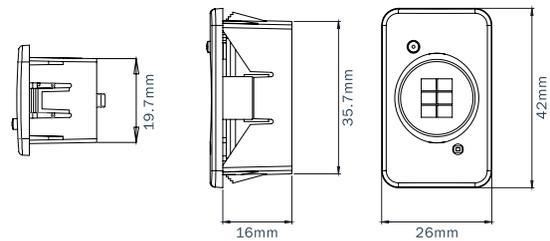
REL20NM-LED-MOD

REL20NM-LED-SL

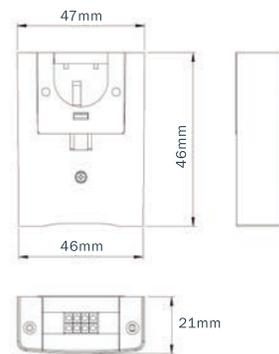
#### MINIMOD



#### MOD



#### Slide on Module



#### REL20NM-LED



CLASS I



Type and batch tested with PSB PLS-LISTED LABEL

\*\*\*Note: Technical Specification subject to change without prior notice

# REL50NM-LED RECESS LED

**HIGH PERFORMANCE RECESS LED  
ENSURE PERFECT LIGHT DISTRIBUTION  
FOR AREAS WITH HIGH CEILING.**



## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>REL50NM-LED</b>
Mode of Operation:	Non-Maintained
Lamp:	10W White LED
Rated Duration:	2 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	2.5W
Battery:	High Temperature Nickel Cadmium
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Aluminium epoxy powder coated reflector, Steel (Charger Housing)
Weight:	Approx. 1.3 Kg
Standards / Compliance:	IEC 61347-2-13, IEC 62384, SS 563

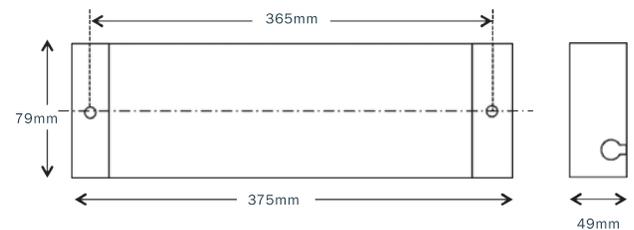
## Ordering Guide:

### Ordering Code

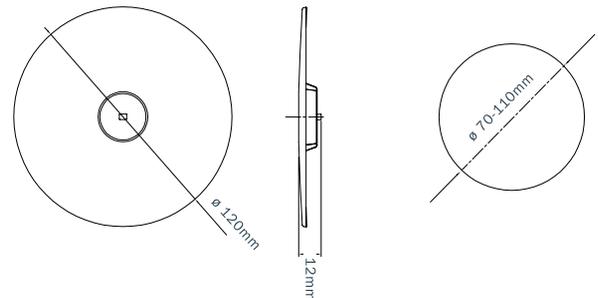
Non- Maintained

REL50NM-LED-120mm

- Very Wide Spacing
- Energy savings, extra low standby power consumption
- Suitable for high ceiling recess mounting.
- Applicable to areas which require higher illuminance levels than the existing IEC standards or Singapore Standards.
- Able to provide perfect light distribution with maximum efficiency even for ceiling height which are more than 10 meters.
- Perfect as escape route lighting and anti-panic lighting.



## 120mm Reflector



CLASS I

Type and batch tested with  
PSB PLS-LISTED LABEL

# REL50M-LED RECESS LED

**HIGH PERFORMANCE RECESS LED  
ENSURE PERFECT LIGHT DISTRIBUTION  
FOR AREAS WITH HIGH CEILING.**



## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>REL50M-LED</b>
Mode of Operation:	Maintained
Lamp:	10W White LED
Rated Duration:	2 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	12.5W
Battery:	High Temperature Nickel Cadmium
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Aluminium epoxy powder coated reflector, Steel (Charger Housing)
Weight:	Approx. 1.3 Kg
Standards / Compliance:	IEC 61347-2-13, IEC 62384, SS 563

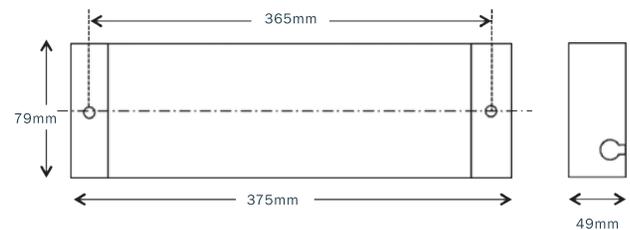
## Ordering Guide:

### Ordering Code

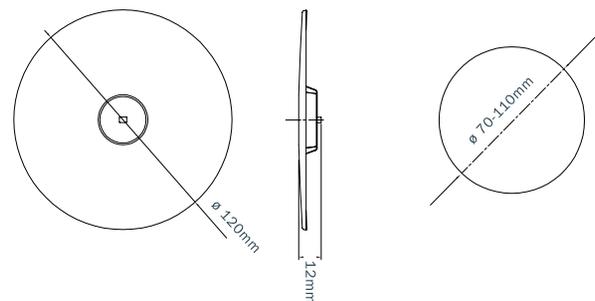
Maintained

REL50M-LED-120mm

- Very Wide Spacing
- Energy savings, extra low standby power consumption
- Suitable for high ceiling recess mounting.
- Applicable to areas which require higher illuminance levels than the existing IEC standards or Singapore Standards.
- Able to provide perfect light distribution with maximum efficiency even for ceiling height which are more than 10 meters.
- Perfect as escape route lighting and anti-panic lighting.



## 120mm Reflector



CLASS I

Type and batch tested with  
PSB PLS-LISTED LABEL

\*\*\*Note: Technical Specification subject to change without prior notice

# REL50NM-LED-CY SURFACE LED

**HIGH PERFORMANCE SURFACE LED  
ENSURES PERFECT LIGHT DISTRIBUTION  
FOR AREAS WITH HIGH CEILING**



## TECHNICAL SPECIFICATIONS

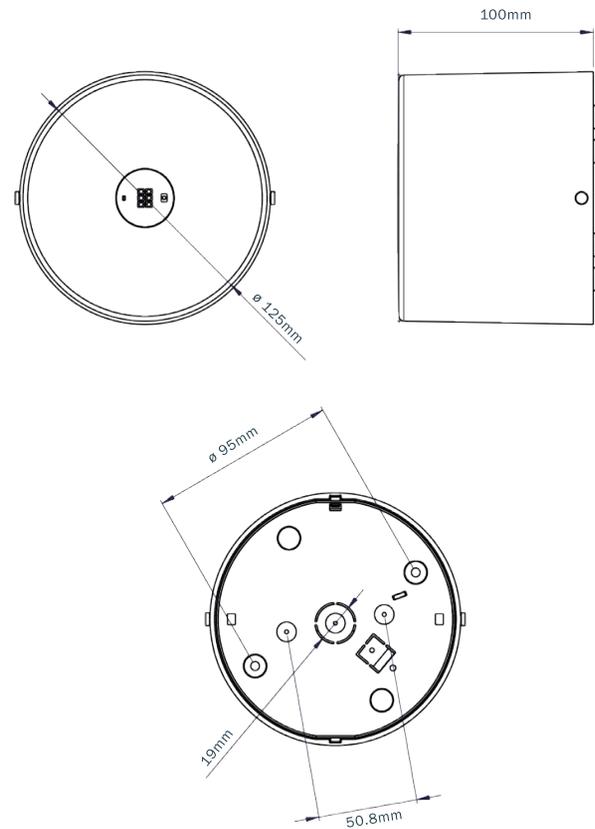
<b>MODEL NO:</b>	<b>REL50NM-LED-CY</b>
Mode of Operation:	Non-Maintained
Lamp:	10W White LED
Rated Duration:	2 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	< 3.0W
Battery:	High Temperature Nickel Cadmium
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact material
Weight:	Approx. 0.7 Kg
Standards / Compliance:	SS IEC 60598-2-22, SS 563, IEC 61347-2-7, IEC 61347-2-13

## Ordering Guide:

Ordering Code

REL50NM-LED-CY

- Very Wide Spacing
- Energy savings, extra low standby power consumption
- Suitable for high ceiling surface mounting.
- Applicable to areas which require higher illuminance levels than the existing IEC standards or Singapore Standards.
- Able to provide perfect light distribution with maximum efficiency even for ceiling height which are more than 10 meters.
- Perfect as escape route lighting and anti-panic lighting.



CLASS II



CE

Type and batch tested with PSB PLS-LISTED LABEL

\*\*\*Note: Technical Specification subject to change without prior notice

# ELD1NM

## SELF-CONTAINED / SUSTAINED LED

(with MINIMOD, MOD, SLIDE ON MODULE)

DESIGNED TO DISCREETLY INCREASE RELIABILITY AND AVOID AGEING EFFECTS



- Prevents damage to fluorescent or LED lamps as it is independent from voltage and output from the general lighting
- Optimal and uniform light point spacing for anti-panic luminaires and escape route luminaires can be achieved.
- Reliability of the emergency modules is increased as the LED modules are addressed separately from the general lighting therefore aging effects are avoided.
- Easy wiring and full compatibility.

### TECHNICAL SPECIFICATIONS

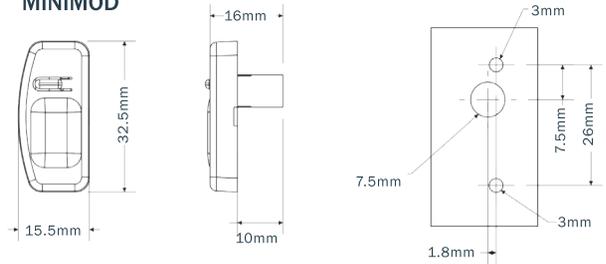
<b>MODEL NO:</b>	<b>ELD1NM</b>
<b>Mode of Operation:</b>	Non-Maintained
<b>Lamp Module:</b>	MINIMOD: 3W, MOD: 3W, Slide on Module: 4W
<b>Rated Duration:</b>	3 Hours
<b>Mains Supply:</b>	220-240 Volts, 50-60Hz
<b>Power Consumption:</b>	< 1.5W
<b>Battery:</b>	High Temperature Nickel Cadmium
<b>Charge Monitor:</b>	LED
<b>Test Facility:</b>	Micro switch
<b>Safety Features:</b>	Low battery voltage cut off to prevent over discharge
<b>Fitting Construction:</b>	Injection moulded with fire retardant, high impact material
<b>Weight:</b>	Approx. 0.3 Kg
<b>Standards / Compliance:</b>	SS IEC 60598-2-22

### Ordering Guide:

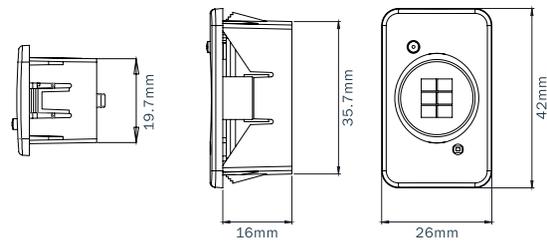
#### Ordering Code

- ELD1NM-S
- ELD1NM-MINIMOD
- ELD1NM-MOD

#### MINIMOD



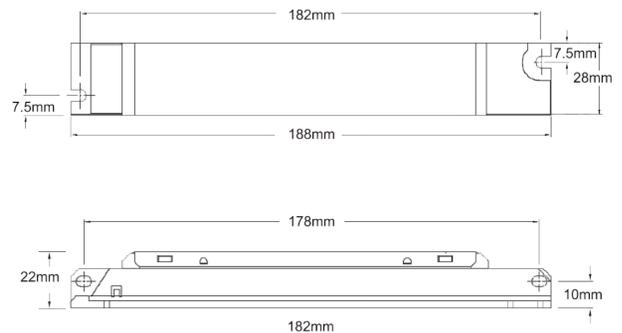
#### MOD



#### Slide on Module



#### ELD1NM



\*\*\*Note: Technical Specification subject to change without prior notice

# ELD2NM SLIDE ON LED

DESIGNED TO DISCREETLY BLEND IN WITH YOUR GENERAL LIGHTING EVEN WITH HIGH CEILING

ELD2NM



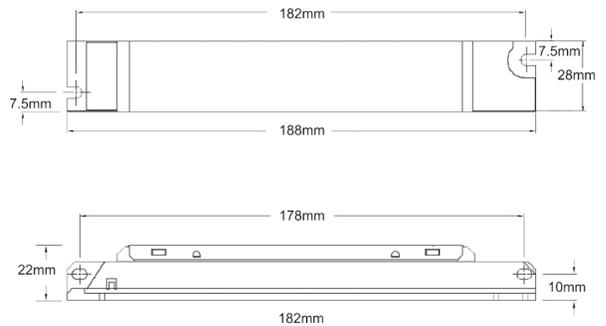
Slide on Module

**Ordering Guide:**

**Ordering Code**

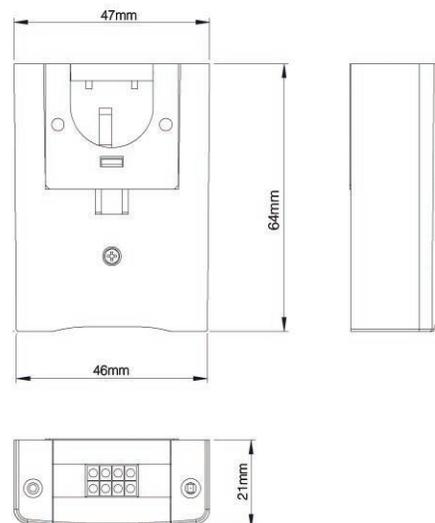
ELD2NM-S

- Prevents damage to fluorescent or LED lamps as it is independent from voltage and output from the general lighting
- Reliability of the emergency modules is increased as the LED modules are addressed separately from the general lighting therefore aging effects are avoided.
- Easy wiring and full compatibility.
- Suitable for high ceiling and is applicable to areas which require higher illuminance levels than the existing IEC standards or Singapore Standards.



**TECHNICAL SPECIFICATIONS**

<b>MODEL NO:</b>	<b>ELD2NM</b>
Mode of Operation:	Non-Maintained
Lamp:	3 x 3W LED Modules
Rated Duration:	2 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	< 1.5W
Battery:	High Temperature Nickel Cadmium
Charge Monitor:	LED
Test Facility:	Micro switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Injection moulded with fire retardant, high impact material
Weight:	Approx. 0.3 Kg
Standards / Compliance:	SS IEC 60598-2-22



CLASS I

\*\*\*Note: Technical Specification subject to change without prior notice

# TED10NM TWIN-SPOT LED

**ADJUSTABLE LENS OPTIMUM  
FOR MATCHING LIGHT OUTPUT  
TO APPLICATIONS**



## TECHNICAL SPECIFICATIONS

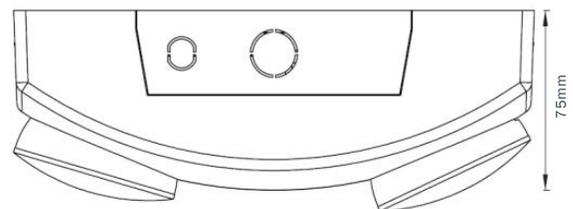
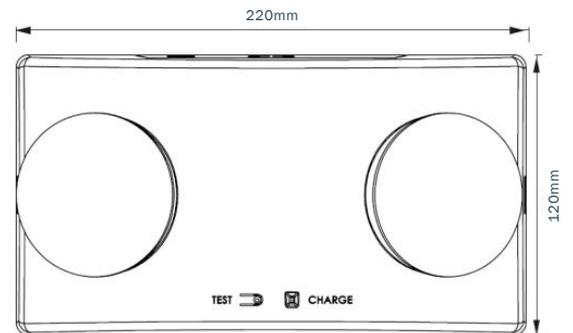
<b>MODEL NO:</b>	<b>TED10NM</b>
Mode of Operation:	Non-Maintained
Lamp:	2 x 3W Power LED Module
Rated Duration:	2 Hours / 3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	< 1.5W
Battery:	High Temperature Lithium LiFePO4 / High Temperature Nickel Cadmium
Charger:	Constant Current / Constant Voltage, Short Circuit protected
Charge Monitor:	LED
Test Facility:	Momentary test switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact PC material
Weight:	Approx. 0.9 Kg
Dimensions:	120mm (H) x 220mm (W) x 75mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563

## Ordering Guide:

### Ordering Code

TED10NM

- Snap in design ensures fast installation and easy maintenance.
- Low heat generation, ensures long and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.
- Adjustable lens for optimum matching to light requirements.



**CLASS II**



PSB Singapore



Type and batch tested with  
PSB PLS-LISTED LABEL

\*\*\*Note: Technical Specification subject to change without prior notice

# TED20NM TWIN-SPOT LED

**ADJUSTABLE LENS OPTIMUM  
FOR MATCHING LIGHT OUTPUT  
TO APPLICATIONS**



## TECHNICAL SPECIFICATIONS

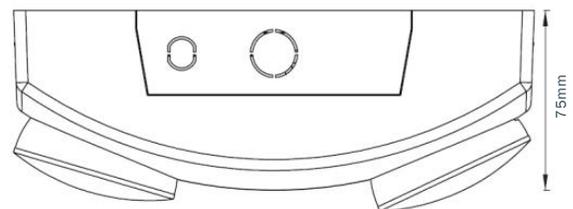
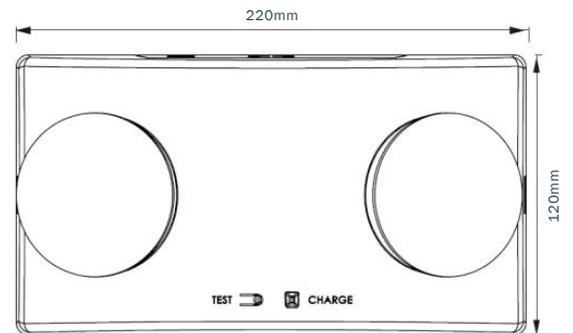
<b>MODEL NO:</b>	<b>TED20NM</b>
Mode of Operation:	Non-Maintained
Lamp:	2 x 5W Power LED Module
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	< 1.5W
Battery:	High Temperature Lithium LiFePO4 / High Temperature Nickel Cadmium (On request)
Charger:	Constant Current / Constant Voltage, Short Circuit protected
Charge Monitor:	LED
Test Facility:	Momentary test switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact PC material
Weight:	Approx. 0.9 Kg
Dimensions:	120mm (H) x 220mm (W) x 75mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563

### Ordering Guide:

#### Ordering Code

TED20NM

- Snap in design ensures fast installation and easy maintenance.
- Low heat generation, ensures long and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.
- Adjustable lens for optimum matching to light requirements.



**CLASS II**



Type and batch tested with  
PSB PLS-LISTED LABEL

\*\*\*Note: Technical Specification subject to change without prior notice

# TH20NM-WP WEATHERPROOF TWIN-SPOT LED

OUR WEATHERPROOF TWIN-SPOT IS  
WELL PREPARED IN HARSH  
ENVIRONMENTAL CONDITIONS.



## TECHNICAL SPECIFICATIONS

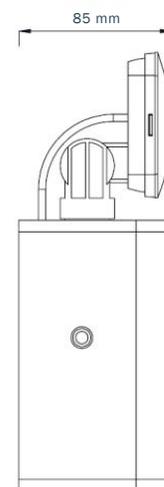
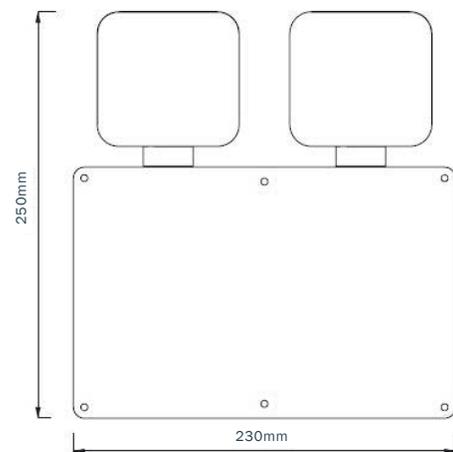
<b>MODEL NO:</b>	<b>TH20NM-WP</b>
Mode of Operation:	Non-Maintained
Lamp:	2 x 5W Power LED Module
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	< 1.5W
Battery:	High Temperature Lithium LiFePO4 / High Temperature Nickel Cadmium (On request)
Charger:	Constant Current / Constant Voltage, Short Circuit protected
Charge Monitor:	LED
Test Facility:	Momentary test switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact PC material
Weight:	Approx. 1.6 Kg
Dimensions:	230mm (H) x 240mm (W) x 85mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563

### Ordering Guide:

#### Ordering Code

TH20NM-WP

- Low heat generation, ensures long and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.
- Weatherproof IP65 design suitable for indoor and outdoor applications.
- Adjustable lens for optimum matching to light requirements.



CLASS II



IP65

\*\*\*Note: Technical Specification subject to change without prior notice

# TH50NM-WP WEATHERPROOF TWIN-SPOT LED

OUR WEATHERPROOF TWIN-SPOT IS  
WELL PREPARED IN HARSH  
ENVIRONMENTAL CONDITIONS.



## TECHNICAL SPECIFICATIONS

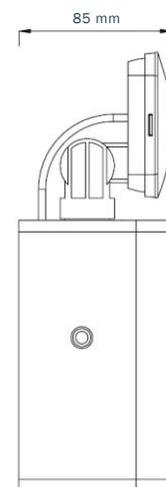
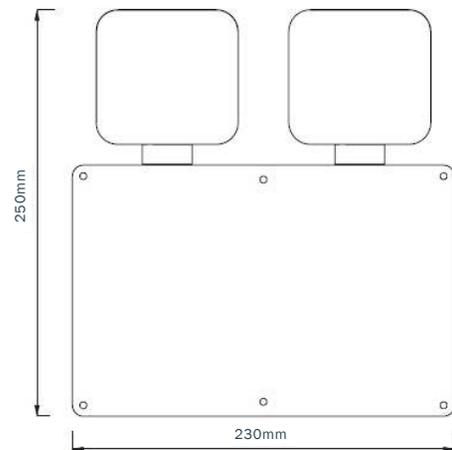
<b>MODEL NO:</b>	<b>TH50NM-WP</b>
Mode of Operation:	Non-Maintained
Lamp:	2 x 10W Power LED Module
Rated Duration:	2 Hours / 3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	< 3W
Battery:	High Temperature Lithium LiFePO4
Charger:	Constant Current / Constant Voltage, Short Circuit protected
Charge Monitor:	LED
Test Facility:	Momentary test switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact PC material
Weight:	Approx. 1.6 Kg
Dimensions:	230mm (H) x 240mm (W) x 85mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563

### Ordering Guide:

#### Ordering Code

TH50NM-WP

- Low heat generation, ensures long and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.
- Weatherproof IP65 design suitable for indoor and outdoor applications.
- Adjustable lens for optimum matching to light requirements.



CLASS II



PSB Singapore



Type and batch tested with  
PSB PLS-LISTED LABEL

IP65

\*\*\*Note: Technical Specification subject to change without prior notice

# EL-LED1 LED BULKHEAD

**LOW MAINTENANCE EMERGENCY  
BULKHEAD IDEAL FOR BOTH EXTERIOR  
AND INTERIOR AREAS**



## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>EL-LED1</b>
Mode of Operation:	Maintained / Non-Maintained
Lamp:	3W White LED
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	< 3W / < 1.5W
Battery:	High Temperature Nickel Cadmium / High Temperature Lithium LiFePO4
Charger:	Constant Current / Constant Voltage, Short Circuit protected
Charge Monitor:	LED
Test Facility:	Momentary test switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact PC/ABS material
Weight:	Approx. 0.6 Kg
Dimensions:	120mm (H) x 277mm (W) x 40mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563

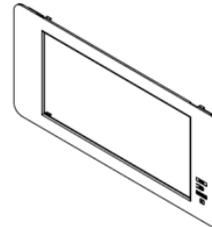
### Ordering Guide:

#### Ordering Code

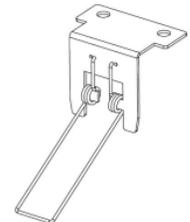
Maintained Mode  
EL-LED1M

Non-Maintained Mode  
EL-LED1NM

### Accessories:

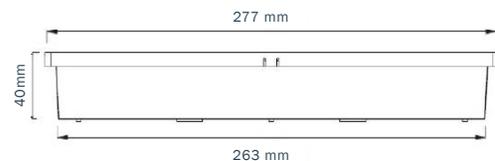


**Recess Plate  
EL-LED**



**Spring Bracket  
EL-LED**

- Low heat generation, ensures long and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.
- Weatherproof design suitable for indoor and outdoor applications.
- Optimal for anti-panic (open area) and escape route lighting applications.
- High quality, long life LED module.



CLASS II



PSB Singapore



Type and batch tested with PSB PLS-LISTED LABEL

**IP65**

\*\*\*Note: Technical Specification subject to change without prior notice

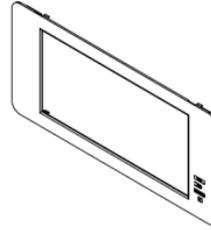
# EL-LED2 LED BULKHEAD

**LOW MAINTENANCE EMERGENCY  
BULKHEAD IDEAL FOR BOTH EXTERIOR  
AND INTERIOR AREAS**

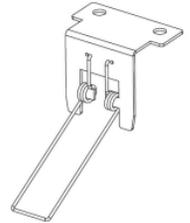


**Ordering Guide:**  
Ordering Code  
EL-LED2NM

**Accessories:**



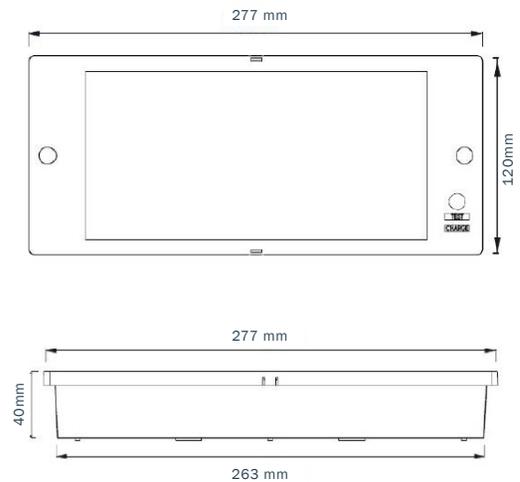
**Recess Plate  
EL-LED**



**Spring Bracket  
EL-LED**

TECHNICAL SPECIFICATIONS	
<b>MODEL NO:</b>	<b>EL-LED2</b>
Mode of Operation:	Maintained / Non-Maintained
Lamp:	6W White LED
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	< 1.5W
Battery:	High Temperature Lithium LiFePO4
Charger:	Constant Current / Constant Voltage, Short Circuit protected
Charge Monitor:	LED
Test Facility:	Momentary test switch
Safety Features:	Low battery voltage cut off to prevent over discharge
Fitting Construction:	Injection moulded with fire retardant (UL94), high impact PC/ABS material
Weight:	Approx. 0.6 Kg
Dimensions:	120mm (H) x 277mm (W) x 40mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563

- Low heat generation, ensures long and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.
- Weatherproof design suitable for indoor and outdoor applications.
- Optimal for anti-panic (open area) and escape route lighting applications.
- High quality, long life LED module.



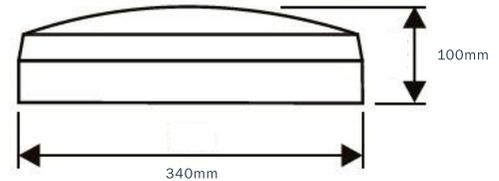
**IP65**

\*\*\*Note: Technical Specification subject to change without prior notice

# OYSTER SERIES

- Modern styled oyster ideal for installations in stairwells and corridors
- Durable polycarbonate body and diffuser
- Movement sensors available as standard options:
  - 1) On/Off Sensor
  - 2) On/Dim 20% Sensor

## MODERN SURFACE ROUND LUMINAIRE WITH HIGH PERFORMANCE LED



### TECHNICAL SPECIFICATIONS: MAINTAINED EMERGENCY

<b>MODEL NO:</b>	OY3403KEMXX / OY3404KEMXX / OY3406KEMXX
Lamp Type:	White LED
Mains Supply:	220-240 Volts, 50-60Hz
Power Rating:	7 - 25W (Depending on configuration, user selected lamp current)
Color Rendering Index (CRI):	> 80
Degree of Protection:	IP 44
Fitting Construction:	White Polycarbonate body with an opal PC diffuser
Battery:	High Temperature Nickel Cadmium
Rated Duration:	2 Hours
Sensor:	Optional microwave sensor: On/Off or On/Dim to 20%
Standards / Compliance:	IEC 60598-2-22

### TECHNICAL SPECIFICATIONS: NON-EMERGENCY

<b>MODEL NO:</b>	OY3403KXX / OY3404KXX / OY3406KXX
Lamp Type:	White LED
Mains Supply:	220-240 Volts, 50-60Hz
Power Rating:	7 - 25W (Depending on configuration, user selected lamp current)
Color Rendering Index (CRI):	> 80
Degree of Protection:	IP 44
Fitting Construction:	White Polycarbonate body with an opal PC diffuser
Sensor:	Optional microwave sensor: On/Off or On/Dim to 20%
Standards / Compliance:	IEC 60598-1

### Ordering Guide: Maintained Emergency

Ordering Code		Colour Temperature
OY3403KEM	On/Off	3000K
OY3403KEM-MS	On/Off Sensor	3000K
OY3403KEM-SD	On/Off Step Dim Sensor	3000K
OY3404KEM	On/Off	4000K
OY3404KEM-MS	On/Off Sensor	4000K
OY3404KEM-SD	On/Off Step Dim Sensor	4000K
OY3406KEM	On/Off	6000K
OY3406KEM-MS	On/Off Sensor	6000K
OY3406KEM-SD	On/Off Step Dim Sensor	6000K

### Ordering Guide: Non-Emergency

Ordering Code		Colour Temperature
OY3403K	On/Off	3000K
OY3403K-MS	On/Off Sensor	3000K
OY3403K-SD	On/Off Step Dim Sensor	3000K
OY3404K	On/Off	4000K
OY3404K-MS	On/Off Sensor	4000K
OY3404K-SD	On/Off Step Dim Sensor	4000K
OY3406K	On/Off	6000K
OY3406K-MS	On/Off Sensor	6000K
OY3406K-SD	On/Off Step Dim Sensor	6000K

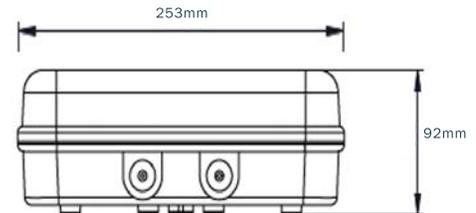
\*\*\*Note: Technical Specification subject to change without prior notice



CLASS I

# SQUARE SERIES

## SQUARE SURFACE LUMINAIRE WITH HIGH PERFORMANCE LED



- Moisture resistant, IP65 Square Light ideal for installations in stairwells and walkways
- Durable polycarbonate body and diffuser
- Movement sensors available as standard options:
  - 1) On/Off Sensor
  - 2) On/Dim 20% Sensor

### TECHNICAL SPECIFICATIONS: MAINTAINED EMERGENCY

<b>MODEL NO:</b>	SQ3403KEMXX / SQ3404KEMXX / SQ3406KEMXX
Lamp Type:	White LED
Mains Supply:	220-240 Volts, 50-60Hz
Power Rating:	7 - 25W (Depending on configuration, user selected lamp current)
Color Rendering Index (CRI):	> 80
Degree of Protection:	IP 65
Fitting Construction:	White Polycarbonate body with an opal PC diffuser
Battery:	High Temperature Nickel Cadmium
Rated Duration:	2 Hours
Sensor:	Optional microwave sensor: On/Off or On/Dim to 20%
Standards / Compliance:	IEC 60598-2-22

### TECHNICAL SPECIFICATIONS: NON-EMERGENCY

<b>MODEL NO:</b>	SQ3403KXX / SQ3404KXX / SQ3406KXX
Lamp Type:	White LED
Mains Supply:	220-240 Volts, 50-60Hz
Power Rating:	7 - 25W (Depending on configuration, user selected lamp current)
Color Rendering Index (CRI):	> 80
Degree of Protection:	IP65
Fitting Construction:	White Polycarbonate body with an opal PC diffuser
Sensor:	Optional microwave sensor: On/Off or On/Dim to 20%
Standards / Compliance:	IEC 60598-1

### Ordering Guide: Maintained Emergency

Ordering Code		Colour Temperature
SQ3403KEM	On/Off	3000K
SQ3403KEM-MS	On/Off Sensor	3000K
SQ3403KEM-SD	On/Off Step Dim Sensor	3000K
SQ3404KEM	On/Off	4000K
SQ3404KEM-MS	On/Off Sensor	4000K
SQ3404KEM-SD	On/Off Step Dim Sensor	4000K
SQ3406KEM	On/Off	6000K
SQ3406KEM-MS	On/Off Sensor	6000K
SQ3406KEM-SD	On/Off Step Dim Sensor	6000K

### Ordering Guide: Non-Emergency

Ordering Code		Colour Temperature
SQ3403K	On/Off	3000K
SQ3403K-MS	On/Off Sensor	3000K
SQ3403K-SD	On/Off Step Dim Sensor	3000K
SQ3404K	On/Off	4000K
SQ3404K-MS	On/Off Sensor	4000K
SQ3404K-SD	On/Off Step Dim Sensor	4000K
SQ3406K	On/Off	6000K
SQ3406K-MS	On/Off Sensor	6000K
SQ3406K-SD	On/Off Step Dim Sensor	6000K

\*\*\*Note: Technical Specification subject to change without prior notice



CLASS I

# HIGHBAY SERIES

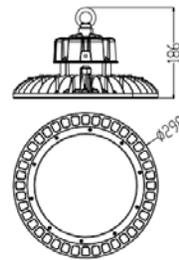
- Ideal for warehouse, workshops, loading bays, atria and sporting centres
- Die-cast aluminium heat sink design mark for a highbay light with good heat dissipation
- External driver for higher reliability and longer life

## WEATHERPROOF DESIGN SUITABLE FOR DRY AND MOIST CONDITIONS

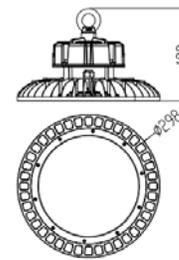


Emergency Conversion Kit in Weatherproof Remote Housing

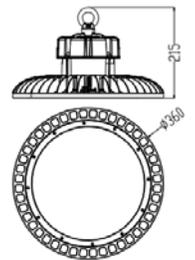
HB100 / HB120



HB150



HB200



TECHNICAL SPECIFICATIONS: MAINTAINED EMERGENCY		TECHNICAL SPECIFICATIONS: NON-EMERGENCY	
Lamp Type:	LED	Lamp Type:	LED
Mains Supply:	220-240 Volts, 50-60Hz	Mains Supply:	220-240 Volts, 50-60Hz
Operating Temperature:	0° to 50°	Operating Temperature:	0° to 50°
Color Rendering Index (CRI):	> 80	Color Rendering Index (CRI):	> 80
Beam Angle:	120°	Beam Angle:	120°
Degree of Protection:	IP 65	Degree of Protection:	IP 65
Fitting Construction:	Diecast Aluminium	Fitting Construction:	Diecast Aluminium
Battery:	High Temperature Nickel Cadmium	Standards / Compliance:	IEC 60598-1
Rated Duration:	2 Hours		
Standards / Compliance:	IEC 60598-2-22		

Ordering Guide: Maintained Emergency		
Ordering Code	Power Consumption	Colour Temperature
HB100EM	100W	5000K
HB120EM	120W	5000K
HB150EM	150W	5000K
HB200EM	200W	5000K

Ordering Guide: Non-Emergency		
Ordering Code	Power Consumption	Colour Temperature
HB100	100W	5000K
HB120	120W	5000K
HB150	150W	5000K
HB200	200W	5000K

\*\*\*Note: Technical Specification subject to change without prior notice



CLASS I IP65

# CONVERSION KITS

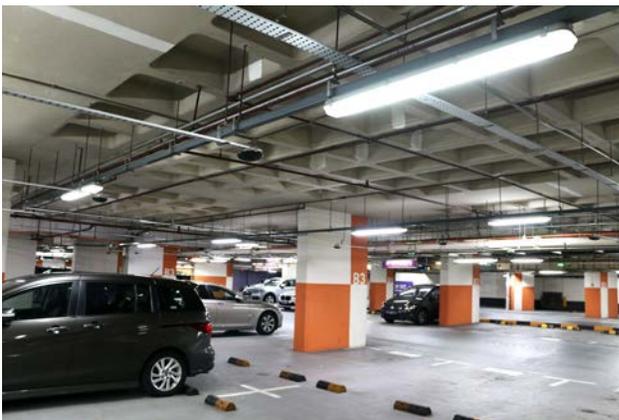
Powercraft's Conversion Kits are designed to be used with various types of fluorescent and LED lamps and can deliver optimum performance in the event of a mains failure by providing sufficient light level. These conversion kits have a low standby power consumption that ensure reliability and a longer shelf life. Most of our conversion kits have short-circuit protection as well. With the low-profile casing that we provide, our conversion kits are one of the slimmest in the market therefore they are usually concealed in fluorescent and LED fittings very easily.



**ECL2/240**  
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**ECL-LED1 / ECL-LED3**  
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# ECS36/240 STANDARD RANGE

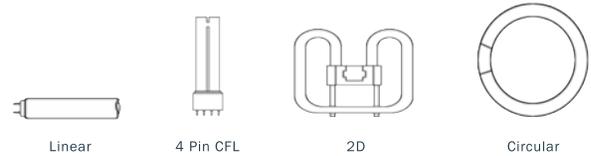


OUR ECS CONVERSION KIT IS DEVELOPED TO ENSURE SAFE EVACUATION OF ALL BUILDINGS.

- Suitable for T5, T8, CFL and 2D fluorescent lamps.
- Low standby power consumption of < 4.5W
- Short-circuit protection at battery terminals.
- IC controlled dual rate charging.
- Automatically activated in the event of power cuts
- Offer a good luminous flux to facilitate the evacuation.

## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>ECS36</b>
Mode of Operation:	Maintained / Non-Maintained
Lamp Type:	T5, T8, 4 Pin CFL and 2D Fluorescent Lamps
Rated Duration:	1 Hour / 2 Hours / 3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Supply Current:	20mA - 35mA
Power Consumption:	< 4.5W
Trickle Charge:	80mA
Battery Charger:	Dual Rate
Battery Protection:	Low battery voltage cut off to prevent over discharge
Battery Type:	High Temperature Nickel Cadmium
Charge Monitor:	LED
Test Facility:	Momentary test switch
Casing Construction:	Electro-galvanised steel
Max. Casing Temp, Tc:	70°C
Max. Ambient Temp, Ta:	50°C
Standards / Compliance:	IEC 61347-2-7 (SS 490-2-7), SS 563



## Ordering Guide:

Ordering Code	Battery Type	Battery Configuration
ECS36/240/4.8/1.6-A	NiCd 4.8V 1.6AH	Cane
ECS36/240/4.8/1.6-S	NiCd 4.8V 1.6AH	Side by side
ECS36/240/4.8/2.5-A	NiCd 4.8V 2.5AH	Cane
ECS36/240/4.8/2.5-S	NiCd 4.8V 2.5AH	Side by side
ECS36/240/4.8/4.5-A	NiCd 4.8V 4.5AH	Cane
ECS36/240/4.8/4.5-A+A	NiCd 4.8V 4.5AH	Cane + Cane



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Type and batch tested with PSB PLS-LISTED LABEL

\*\*\*Note: Technical Specification subject to change without prior notice

# ECL2/240 LOW PROFILE RANGE

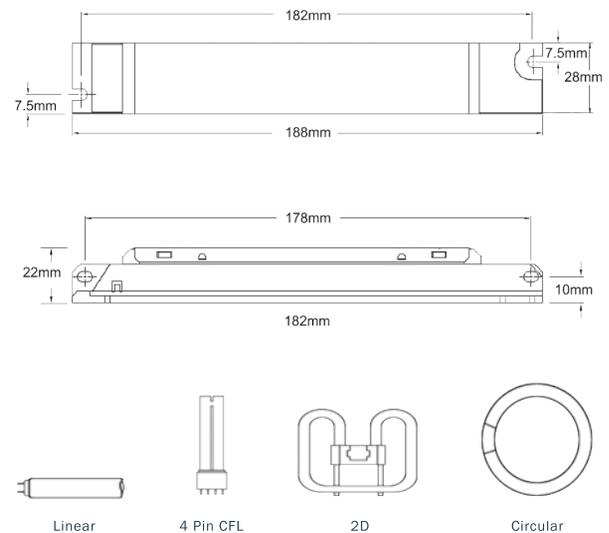


OUR SLIMMEST CONVERSION KIT THAT CAN BE EASILY CONCEALED IN THE FLUORESCENT FITTING.

- Suitable for T5, T8, CFL and 2D fluorescent lamps.
- Extra low standby power consumption.
- Short-circuit protection.
- Five-pole relay configuration.
- Low-profile casing ( 22mm x 28mm cross-section )
- Ballast control output ensures compatibility with most high frequency ballast.
- Automatically activated in the event of power cuts
- Offer a good luminous flux to facilitate the evacuation.

## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>ECL2</b>
<b>Mode of Operation:</b>	Maintained / Non-Maintained
<b>Lamp Type:</b>	T5, T8, 4 Pin CFL and 2D Fluorescent Lamps
<b>Rated Duration:</b>	1 Hour / 2 Hours
<b>Mains Supply:</b>	220-240 Volts, 50-60Hz (110-240V on request)
<b>Supply Current:</b>	20mA
<b>Power Consumption:</b>	< 2.0W
<b>Trickle Charge:</b>	80mA / 125mA
<b>Battery Charger:</b>	Regulated Variable Rate
<b>Battery Protection:</b>	Low battery voltage cut off to prevent over discharge
<b>Battery Type:</b>	High Temperature Nickel Cadmium / Nickel-Metal Hydride
<b>Charge Monitor:</b>	LED
<b>Test Facility:</b>	Momentary test switch
<b>Casing Construction:</b>	Electro-galvanised steel
<b>Max. Casing Temp, Tc:</b>	70°C
<b>Max. Ambient Temp, Ta:</b>	50°C
<b>Standards / Compliance:</b>	IEC 61347-2-7 (SS 490-2-7), SS 563



## Ordering Guide:

Ordering Code	Battery Type	Battery Configuration
ECL1/240/3.6/1.6-S	NiCd 3.6V 1.6AH	Side by side
ECL1/240/3.6/2.5-A	NiCd 3.6V 2.5AH	Cane
ECL2/240/4.8/1.6-A	NiCd 4.8V 1.6AH	Cane
ECL2/240/4.8/1.6-S	NiCd 4.8V 1.6AH	Side by side
ECL2/240/4.8/2.5-A	NiCd 4.8V 2.5AH	Cane
ECL2/240/4.8/2.5-S	NiCd 4.8V 2.5AH	Side by side
ECL2/120-240/4.8/2.5-A	NiCd 4.8V 2.5AH	Cane
ECL2/120-240/4.8/2.5-S	NiCd 4.8V 2.5AH	Side by side



\*\*\*Note: Technical Specification subject to change without prior notice

# ECL4/240 LOW PROFILE RANGE

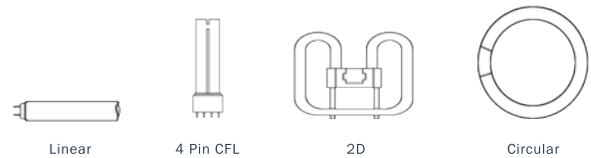
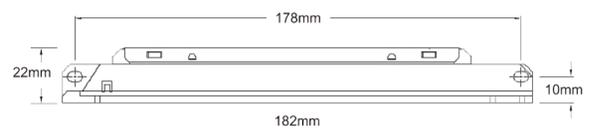


**OUR SLIMMEST CONVERSION KIT THAT CAN BE EASILY CONCEALED IN THE FLUORESCENT FITTING.**

- Suitable for T5, T8, CFL and 2D fluorescent lamps.
- Extra low standby power consumption.
- Short-circuit protection.
- Five-pole relay configuration.
- Low-profile casing ( 22mm x 28mm cross-section )
- Ballast control output ensures compatibility with most high frequency ballast.
- Automatically activated in the event of power cuts
- Offer a good luminous flux to facilitate the evacuation.

## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>ECL4</b>
Mode of Operation:	Maintained / Non-Maintained
Lamp Type:	T5, T8, 4 Pin CFL and 2D Fluorescent Lamps
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz (110-240V on request)
Supply Current:	20mA
Power Consumption:	< 2.0W
Trickle Charge:	125mA / 225mA
Battery Charger:	Regulated Variable Rate
Battery Protection:	Low battery voltage cut off to prevent over discharge
Battery Type:	High Temperature Nickel Cadmium
Charge Monitor:	LED
Test Facility:	Momentary test switch
Casing Construction:	Electro-galvanised steel
Max. Casing Temp, Tc:	70°C
Max. Ambient Temp, Ta:	50°C
Standards / Compliance:	IEC 61347-2-7 (SS 490-2-7), SS 563



## Ordering Guide:

Ordering Code	Battery Type	Battery Configuration
ECL4/240/4.8/4.5-A	NiCd 4.8V 4.5AH	Cane
ECL4/240/4.8/4.5-A+A	NiCd 4.8V 4.5AH	Cane + Cane



\*\*\*Note: Technical Specification subject to change without prior notice

# ECL-LED1 / ECL-LED3 LED RANGE

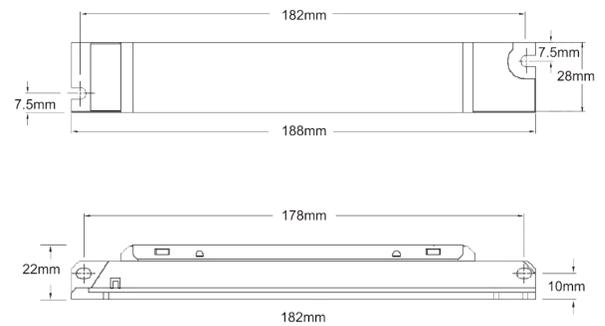
OUR SLIMMEST LED CONVERSION KIT THAT IS COMPACT AND EFFICIENT.



- LED Load.
- Extra low standby power consumption.
- Low-profile casing ( 22mm x 28mm cross-section )
- Suitable for a wide range LED load voltage range
- Regulated charger output
- Able to power a LED light fitting at a reduce luminous flux for one, two and three hours
- Automatically activated in the event of power cuts
- Offer a good luminous flux to facilitate the evacuation.

## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>ECL-LED1 / ECL-LED3</b>
Mode of Operation:	Maintained / Non-Maintained
Lamp Type:	3 - 70V LED Load
Rated Duration:	2 Hours / 3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Supply Current:	20mA
Power Consumption:	< 2.0W
Trickle Charge:	80mA / 125mA
Battery Charger:	Regulated variable rate
Battery Protection:	Low battery voltage cut off to prevent over discharge
Battery Type:	High Temperature Nickel Cadmium
Charge Monitor:	LED
Test Facility:	Momentary test switch
Casing Construction:	Electro-galvanised steel
Max. Casing Temp, Tc:	70°C
Max. Ambient Temp, Ta:	50°C
Standards / Compliance:	IEC 61347-2-7 (SS 490-2-7), SS 563, IEC 61347-2-13, IEC 62384



## Ordering Guide:

Ordering Code	Battery Type	Battery Configuration
ECL-LED1/240/3.6/1.6-A	NiCd 3.6V 1.6AH	Cane
ECL-LED1/240/3.6/1.6-S	NiCd 3.6V 1.6AH	Side by side
ECL-LED1/240/3.6/2.5-A	NiCd 3.6V 2.5AH	Cane
ECL-LED1/240/3.6/2.5-S	NiCd 3.6V 2.5AH	Side by side
ECL-LED3/240/2.4/1.6-A	NiCd 2.4V 1.6AH	Cane

\*\*\*Note: Technical Specification subject to change without prior notice

# ECL-LED2 LED RANGE

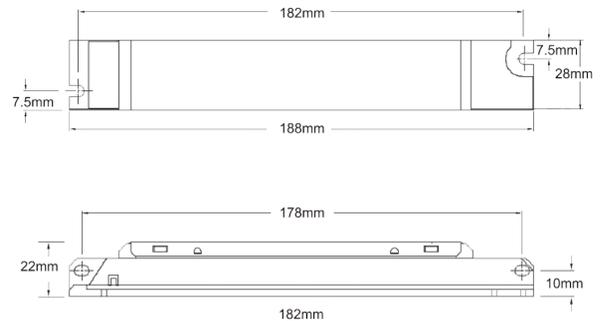
OUR SLIMMEST LED CONVERSION KIT THAT IS COMPACT AND EFFICIENT.



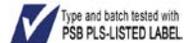
- LED Load.
- Extra low standby power consumption.
- Low-profile casing ( 22mm x 28mm cross-section )
- Suitable for a wide range LED load voltage range
- Regulated charger output
- Able to power a LED light fitting at a reduce luminous flux for two hours or more
- Automatically activated in the event of power cuts
- Offer a good luminous flux to facilitate the evacuation.

## TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>ECL-LED2</b>
Mode of Operation:	Maintained / Non-Maintained
Lamp Type:	3 - 70V LED Load
Rated Duration:	2 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Supply Current:	40mA
Power Consumption:	< 4.0W
Trickle Charge:	125mA / 225mA
Battery Charger:	Regulated variable rate
Battery Protection:	Low battery voltage cut off to prevent over discharge
Battery Type:	High Temperature Nickel Cadmium
Charge Monitor:	LED
Test Facility:	Momentary test switch
Casing Construction:	Electro-galvanised steel
Max. Casing Temp, Tc:	70°C
Max. Ambient Temp, Ta:	50°C
Standards / Compliance:	IEC 61347-2-7 (SS 490-2-7), SS 563, IEC 61347-2-13, IEC 62384



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### Ordering Guide:

Ordering Code	Battery Type	Battery Configuration
ECL-LED2/240/4.8/2.5-A	NiCd 4.8V 2.5AH	Cane
ECL-LED2/240/4.8/2.5-S	NiCd 4.8V 2.5AH	Side by side
ECL-LED2/240/4.8/4.5-A	NiCd 4.8V 4.5AH	Cane
ECL-LED2/240/4.8/4.5-A+A	NiCd 4.8V 4.5AH	Side by side

\*\*\*Note: Technical Specification subject to change without prior notice

# ECP-LED4 LED RANGE



## OUR ECP-LED4 CONVERSION KIT IS SUITABLE FOR A WIDE RANGE OF LED FITTINGS

- AC LED Load
- Suitable for a wide range of AC LED Tube, Down lights.
- Short-circuit protection at battery terminals.
- Extra low standby power consumption.
- Able to power a LED light fitting at a reduce luminous flux for two hours or more
- High Temperature 70 °C Li-Ion battery
- Automatically activated in the event of power cuts
- Offer a good luminous flux to facilitate the evacuation.

### TECHNICAL SPECIFICATIONS

<b>MODEL NO:</b>	<b>ECP-LED4</b>
Mode of Operation:	Maintained / Non-Maintained
Lamp Type:	AC LED Tube 180-240 Volts AC, 22W (max)
Rated Duration:	1hours / 2 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Supply Current:	30mA
Power Consumption:	3W
Battery Charger:	Regulated variable rate
Battery Protection:	Low battery voltage cut off to prevent over discharge
Battery Type:	High Temperature Li-ion (LiPoFe4)
Charge Monitor:	LED
Test Facility:	Momentary test switch
Casing Construction:	Electro-galvanised steel
Max. Casing Temp, Tc:	70°C
Max. Ambient Temp, Ta:	50°C



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### Ordering Guide:

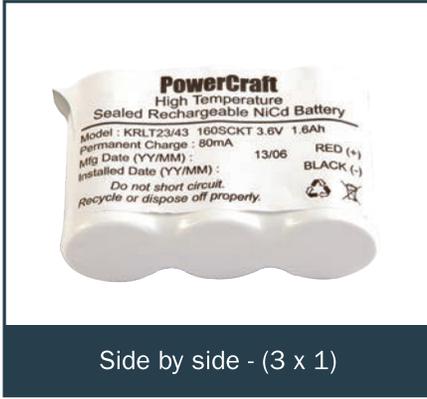
Ordering Code	Battery Type	Battery Configuration
ECP-LED4/240/12.8/1.5AH	Li-ion 12.8V/1.5AH	Cane
ECP-LED4/240/12.8/3.2AH	Li-ion 12.8V/3.2AH	Cane

\*\*\*Note: Technical Specification subject to change without prior notice

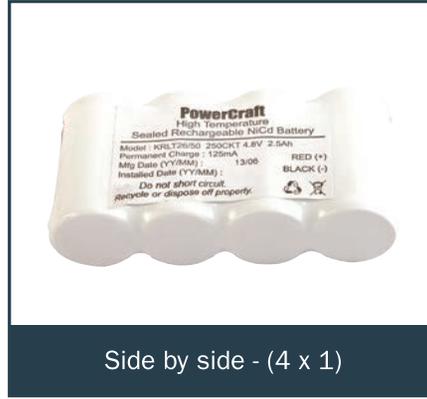
# BATTERY PACKS

For many years, Powercraft have always recognized the importance of the quality of batteries used with a reliable conversion kit to ensure the proper function of an emergency lighting therefore PowerCraft develops and manufactures its own Nickel-Cadmium rechargeable batteries and High Temperature Lithium LiFePO4 that can have a service life of at least four years in maintained and non-maintained operation at high temperatures and constant charging. Powercraft's Nickel-Cadmium batteries are also tested to the most stringent standards applicable which is IEC 61951, IEC 62133 and IEC 62620 to make sure that these batteries can provide full output during emergency situations.





Side by side - (3 x 1)



Side by side - (4 x 1)



Side by side - (2 x 2)



Cane - (1 x 3)



Cane - (1 x 4)



Side by side - (2 x 4)



Cane + Cane  
(1 x 2) + (1 x 2)

BATTERY TYPE	BATTERY CONFIGURATION (Rows x No. of Cells)	Total No. of Cells per pack	Cell Size	Pack Dimension (mm)
NiCd 3.6V 1.6AH	Cane (1 x 3)	3	Sub-C	130 x ø 24
NiCd 3.6V 1.6AH	Side by Side (3 x 1)	3	Sub-C	70 x 47 x 24
NiCd 3.6V 2.5AH	Cane (1 x 3)	3	C	152 x ø 27
NiCd 3.6V 2.5AH	Side by Side (3 x 1)	3	C	80 x 50 x 27
NiMh 4.8V 1.6AH	Side by Side (4 x 2)	8	AA	193 x 28 x 27
NiCd 4.8V 1.6AH	Cane (1 x 4)	4	Sub-C	174 x ø 24
NiCd 4.8V 1.6AH	Side by Side (2 x 2)	4	Sub-C	92 x 47 x 24
NiCd 4.8V 2.5AH	Cane (1 x 4)	4	C	201 x ø 27
NiCd 4.8V 2.5AH	Side by Side (4 x 1)	4	C	105 x 56 x 27
NiCd 4.8V 4.5AH	Cane (1 x 4)	4	D	241 x ø 34
NiCd 4.8V 4.5AH	Cane + Cane (1 x 2) + (1 x 2)	2 + 2	D	(121 x ø 34) + (121 x ø 34)
NiCd 9.6V 1.6AH	Side by Side (2 x 4)	8	Sub-C	173 x 46 x 24
NiCd 9.6V 2.5AH	Side by Side (2 x 4)	8	C	201 x 54 x 27
Li-ion 12.8V 3.2Ah	Cane (1 x 4)	4	26650	263 x ø 33

\*\*\*Note: Technical Specification subject to change without prior notice

**PowerCraft**

Emergency Lighting Solutions

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# EX-LED-M SLIMLINE LED

SLIM FRAMELESS EXIT SIGN WITH  
NUMEROUS INSTALLATION OPTIONS



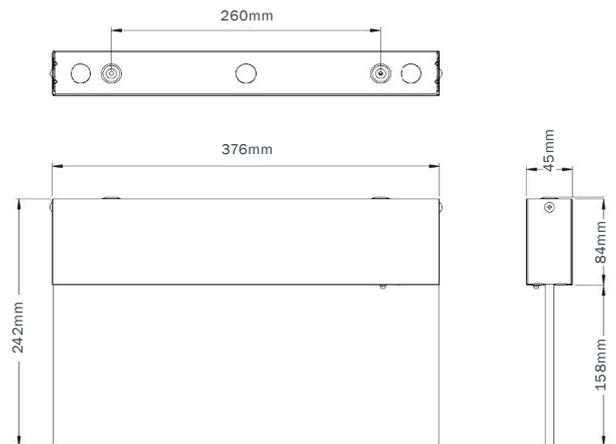
## Ordering Guide:

Legend	Single Sided	Double Sided
	EX-LED-M-S-RM	EX-LED-M-D-RM
	EX-LED-M-SR-RM	EX-LED-M-DR-RM
	EX-LED-M-SL-RM	EX-LED-M-DL-RM
	EX-LED-M-S	EX-LED-M-D ✓
	EX-LED-M-SR	EX-LED-M-DR
	EX-LED-M-SL	EX-LED-M-DL

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds SS IEC 60598-2-22 and SS 563 brightness requirements
- Extra low power consumption
- High Quality , Long Life SMD LED module
- Series connection of LEDs provides equal biasing of all LEDs ensures maximum LED life span and uniform light distribution
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Add-on plate for recess mounting.

## TECHNICAL SPECIFICATIONS

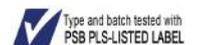
MODEL NO:	EX-LED-M
Mode of Operation:	Maintained
Lamp:	1.2W White LED module with burning life-span > 50,000 hours
Rated Duration:	3 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Power Consumption:	3W (Total standby power inclusive of LED converter)
Battery:	High Temperature Nickel Cadmium
Charger:	Regulated variable rate
Charge Monitor:	LED
Test Facility:	Micro switch
Mounting:	Surface mount (Recessed mount option available)
Safety Features:	Low battery voltage cut off to prevent over discharge
Diffuser:	Acrylic plate (fire retardant)
Fitting Construction:	Electro galvanized steel. Epoxy powder coating for casing and gear tray
Weight:	Approx. 1.2 Kg
Dimensions:	242mm (H) x 376mm (W) x 45mm (D)
Standards / Compliance:	SS IEC 60598-2-22, SS 563



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\*\*\*Note: Technical Specification subject to change without prior notice

# ECL-LED2 LED RANGE



## TECHNICAL SPECIFICATIONS

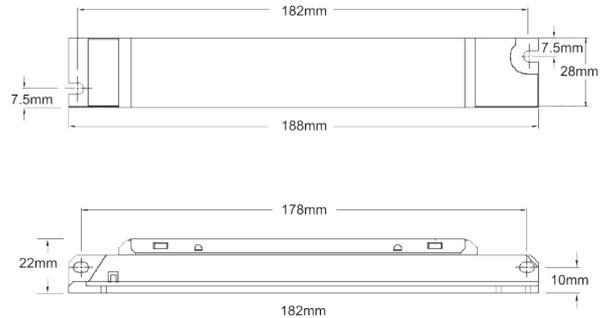
<b>MODEL NO:</b>	<b>ECL-LED 2</b>
Mode of Operation:	Maintained / Non-Maintained
Lamp Type:	3 - 70V LED Load
Rated Duration:	2 Hours
Mains Supply:	220-240 Volts, 50-60Hz
Supply Current:	40mA
Power Consumption:	< 4.0W
Trickle Charge:	125mA / 225mA
Battery Charger:	Regulated variable rate
Battery Protection:	Low battery voltage cut off to prevent over discharge
Battery Type:	High Temperature Nickel Cadmium
Charge Monitor:	LED
Test Facility:	Momentary test switch
Casing Construction:	Electro-galvanised steel
Max. Casing Temp, Tc:	70°C
Max. Ambient Temp, Ta:	50°C
Standards / Compliance:	IEC 61347-2-7 (SS 490-2-7), SS 563, IEC 61347-2-13, IEC 62384

### Ordering Guide:

Ordering Code	Battery Type	Battery Configuration
ECL-LED2/240/4.8/2.5-A	NiCd 4.8V 2.5AH	Cane
ECL-LED2/240/4.8/2.5-S	NiCd 4.8V 2.5AH	Side by side
ECL-LED2/240/4.8/4.5-A	NiCd 4.8V 4.5AH	Cane
ECL-LED2/240/4.8/4.5-A+A	NiCd 4.8V 4.5AH	Side by side

## OUR SLIMMEST LED CONVERSION KIT THAT IS COMPACT AND EFFICIENT.

- LED Load.
- Extra low standby power consumption.
- Low-profile casing ( 22mm x 28mm cross-section )
- Suitable for a wide range LED load voltage range
- Regulated charger output
- Able to power a LED light fitting at a reduce luminous flux for two hours or more
- Automatically activated in the event of power cuts
- Offer a good luminous flux to facilitate the evacuation.



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