PowerCraft

Emergency Lighting Solutions

PRODUCT CATALOGUE





http://www.powercraftelec.com

PowerCraft
Emergency Lighting Solutions

CERTIFICATION



TEST CERTIFICATE

This Certificate is issued to
PowerCraft Electronics Pte Ltd
161, Kallang Way, #07-01
Kolam Ayer Industrial Estate
Singapore 349247

FOR
Product: Rechargeable Nickel-Cadmium Cylindrical Cell
Brand/Model: Powercraft/160SCKT
Detail: Ratings: 1.2V, 1.6Ah
Specification: Clauses 5.3.1, 6.1.2.2, 7.2.1, 7.2.2, 7.6.3, 7.7, 7.4.1.1, 7.4.2.3, 7.7, 7.3 & 7.8 of IEC 61951-1 Edition 2.1 2006-01
Test Report: 7191032114-EEC13/03
Date of Test Report : 2nd May 2013

Summary
The product has been tested and found to have met the above specification.

Vice President (Electrical & Electronic Centre)
TÜV SÜD PSB Pte Ltd

Certificate No:	Date of Original Issue:	Date of Last Revision:	Date of Expiry
03035	13/05/2013	-	12/05/2015

This Certificate is part of a full report and should be read in conjunction with it. This Certificate remains the property of TÜV SÜD PSB Pte Ltd and shall be returned upon request. The use of this Certificate is subjected to the terms and conditions of the Test Certification Scheme.
Note: This Certificate is issued pursuant to the terms set out overleaf.

TÜV SÜD PSB Pte Ltd • 1 Science Park Drive . Singapore 118221

TEST CERTIFICATE

This Certificate is issued to
PowerCraft Electronics Pte Ltd
161, Kallang Way, #07-01
Kolam Ayer Industrial Estate
Singapore 349247

FOR
Product: Rechargeable Nickel-Cadmium Cylindrical Cell
Brand/Model: Powercraft/250CKT
Detail: Ratings: 1.2V, 2.5Ah
Specification: Clauses 5.3.1, 6.1.2.2, 7.2.1, 7.2.2, 7.6.3, 7.7, 7.4.1.1, 7.4.2.3, 7.7, 7.3 & 7.8 of IEC 61951-1 Edition 2.1 2006-01
Test Report: 7191032114-EEC13/02
Date of Test Report : 2nd May 2013

Summary
The product has been tested and found to have met the above specification.

Vice President (Electrical & Electronic Centre)
TÜV SÜD PSB Pte Ltd

Certificate No:	Date of Original Issue:	Date of Last Revision:	Date of Expiry
03034	13/05/2013	-	12/05/2015

This Certificate is part of a full report and should be read in conjunction with it. This Certificate remains the property of TÜV SÜD PSB Pte Ltd and shall be returned upon request. The use of this Certificate is subjected to the terms and conditions of the Test Certification Scheme.

TEST CERTIFICATE

This Certificate is issued to
PowerCraft Electronics Pte Ltd
161, Kallang Way, #07-01
Kolam Ayer Industrial Estate
Singapore 349247

FOR
Product: Rechargeable Nickel-Cadmium Cylindrical Cell
Brand/Model: Powercraft/450DKT
Detail: Ratings: 1.2V, 4.5Ah
Specification: Clauses 5.3.1, 6.1.2.2, 7.2.1, 7.2.2, 7.6.3, 7.7, 7.4.1.1, 7.4.2.3, 7.7, 7.3 & 7.8 of IEC 61951-1 Edition 2.1 2006-01
Test Report: 7191032114-EEC13/01
Date of Test Report : 2nd May 2013

Summary
The product has been tested and found to have met the above specification.

Vice President (Electrical & Electronic Centre)
TÜV SÜD PSB Pte Ltd

Certificate No:	Date of Original Issue:	Date of Last Revision:	Date of Expiry:
03033	13/05/2013	-	12/05/2015

This Certificate is part of a full report and should be read in conjunction with it. This Certificate remains the property of TÜV SÜD PSB Pte Ltd and shall be returned upon request. The use of this Certificate is subjected to the terms and conditions of the Test Certification Scheme.
Note: This Certificate is issued pursuant to the terms set out overleaf.

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CERTIFICATE OF CONFORMITY

No. CLS1B 13 11 81193 007

Certificate Holder: Powercraft Electronics Pte Ltd
Blk 161 Kallang Way
#07-01
Kolam Ayer Industrial Estate
Singapore 239247
SINGAPORE

Certification Mark: TÜV SÜD PSB

Product: Emergency Exit Signs (LED)
Brand Name: PowerCraft
Model(s): EX-LED-M-QF and EX-LED-M-RS
Product Details: Rated :220-240V~ 50-60Hz
Load :17 x CCT 5000K~6300K LEDs
LED model : 67-21/QK2C-B50632C4B2/2T
LED manufacturer: EVERLIGHT
Battery :3.6V 1.6Ah NiCd
Standard(s): SS 263-2/A2:2008
SS 563-1:2010
SS 563-2:2010
Country of Origin: Singapore
Test Report(s): 7191059026-EEC13-KYM
Issued on: 2013-11-19
Valid until: 2016-11-18

Products listed under Class 1B must have TÜV SÜD PSB PLS mark as shown above affixed/printed on them. Failure to comply with this requirement may result in revocation of this certificate.

Vice President (Certification Department)
TÜV SÜD PSB

Page 1 of 1

This Certificate is part of a full report and should be read in conjunction with it. This Certificate remains the property of TÜV SÜD PSB Pte Ltd and shall be returned upon request. The use of this Certificate is subjected to TÜV SÜD Group Testing and Certification Regulations; TÜV SÜD PSB Pte Ltd (PSB) General Terms and Conditions of Business and PSB Product Listing Scheme (PLS) Application Fact Sheet. The manufacturer is solely responsible for compliance of any product that has the same designation as the product type-tested. Persons relying on this Certificate should verify its validity by checking TÜV SÜD PSB's website at www.tuv-sud-psb.sg

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CERTIFICATE OF CONFORMITY

No. CLS1B 13 01 81193 004

Certificate Holder: POWERCRAFT ELECTRONICS PTE LTD
KOLAM AYER INDUSTRIAL ESTATE
BLK 161 KALLANG WAY #07-01 TO 04,
SINGAPORE 349247
SINGAPORE

Certification Mark: TÜV SÜD PSB

Product: Emergency Exit Signs
Brand Name: PowerCraft
Model(s): EXB-CCFL-M
Product Details: Rated: 230-240V~ 50-60Hz
Load: 4W CCFL
Battery:NiCd 3.6V/1.6AHR
Suffix for the directional sign as follow :
(i) S-Panel without arrow
(ii)SR-Panel with arrow pointing right
(iii)SL-Panel with arrow pointing left
Former CoC 022648
Standard(s): SS CP 19/A2:2005
SS 263-2:1998
Country of Origin Singapore
Test Report(s): See Appendix Issue 1 (1pg)
Issued on: 2013-01-14
Valid until: 2014-07-06

Products listed under Class 1B must have TÜV SÜD PSB PLS mark as shown above affixed/printed on them. Failure to comply with this requirement may result in revocation of this certificate.

Vice-President (Certification Department)
TÜV SÜD PSB

Page 1 of 2

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CERTIFICATE OF CONFORMITY

No. CLS1B 13 01 81193 003

Certificate Holder: POWERCRAFT ELECTRONICS PTE LTD
KOLAM AYER INDUSTRIAL ESTATE
BLK 161 KALLANG WAY #07-01 TO 04,
SINGAPORE 349247
SINGAPORE

Certification Mark: TÜV SÜD PSB

Product: Emergency Exit Signs
Brand Name: PowerCraft
Model(s): EX-CCFL-M
Product Details: Rated: 230-240V~ 50-60Hz
Load: 4W CCFL lamp
Battery:NiCd 3.6V/1.6AHR
Suffix for the directional sign as follow :
(i) S-Panel without arrow
(ii)SR-Panel with arrow pointing right
(iii)SL-Panel with arrow pointing left
(iv) D-Double Sided Panel
Former CoC 022578
Standard(s): SS CP 19/A2:2005
SS 263-2:1998
Country of Origin Singapore
Test Report(s): 5SS052504/OCY/THK
Issued on: 2013-01-14
Valid until: 2014-07-06

Products listed under Class 1B must have TÜV SÜD PSB PLS mark as shown above affixed/printed on them. Failure to comply with this requirement may result in revocation of this certificate.

Vice-President (Certification De
TÜV SÜD PSB

Page 1 of 1

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CERTIFICATE OF CONFORMITY

No. CLS1B 12 12 81193 002

Certificate Holder: POWERCRAFT ELECTRONICS PTE LTD
KOLAM AYER INDUSTRIAL ESTATE
BLK 161 KALLANG WAY #07-01 TO 04,
SINGAPORE 349247
SINGAPORE

Certification Mark: TÜV SÜD PSB

Product: Emergency Exit Signs
Brand Name: PowerCraft
Model(s): EX-LED-M
Product Details: Rated: 230-240V~ 50-60Hz
Lamp: 1W/12PCS WHITE LED
Battery:(i) 3.6V 1.6AHR NiCd (ii) 3.6V 1.5AHR NiCd

Suffix for the directional sign as follow:
(i) S-Panel without arrow
(ii) SR-Panel with arrow pointing right
(iii) SL-Panel with arror pointing left
Former CoC 022563
Standard(s): SS CP19/A2:2005
SS 263-2:1998
Country of Origin SINGAPORE
Test Report(s): 5SS052077/OCY/THK
Issued on: 2012-12-04
Valid until: 2014-07-06

Products listed under Class 1B must have TÜV SÜD PSB PLS mark as shown above affixed/printed on them. Failure to comply with this requirement may result in revocation of this certificate.

Vice-President (Certification Department)
TÜV SÜD PSB

Page 1 of 1

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CERTIFICATE OF CONFORMITY

No. CLS1B 13 01 81193 006

Certificate Holder: POWERCRAFT ELECTRONICS PTE LTD
KOLAM AYER INDUSTRIAL ESTATE
BLK 161 KALLANG WAY #07-01 TO 04,
SINGAPORE 349247
SINGAPORE

Certification Mark: TÜV SÜD PSB

Product: Emergency Lightings
Brand Name: PowerCraft
Model(s): REL20NM-LED
Product Details: Rated: 220-240V~ 50-60Hz
Load: 1 x White LED, 3.6V/1A max
LED Model: LUM WSAM-KKKZ-5P7R
LED Brand: OSRAM
Battery: 3.6V 1.6Ah Ni-Cd
Former CoC 022806
Standard(s): SS CP 19/A2:2005
SS 263-2:1998
Country of Origin Singapore
Test Report(s): See Appendix Issue 1 (1pg)
Issued on: 2013-01-14
Valid until: 2014-07-06

Products listed under Class 1B must have TÜV SÜD PSB PLS mark as shown above affixed/printed on them. Failure to comply with this requirement may result in revocation of this certificate.

Vice-President (Certification Department)
TÜV SÜD PSB

Page 1 of 2

This Certificate is part of a full report and should be read in conjunction with it. This Certificate remains the property of TÜV SÜD PSB Pte Ltd and shall be returned upon request. The use of this Certificate is subjected to TÜV SÜD Group Testing and Certification Regulations; TÜV SÜD PSB Pte Ltd (PSB) General Terms and Conditions of Business and PSB Product Listing Scheme (PLS) Application Fact Sheet. The manufacturer is solely responsible for compliance of any product that has the same designation as the product type-tested. Persons relying on this Certificate should verify its validity by checking TÜV SÜD PSB's website at www.tuv-sud-psb.sg

CERTIFICATE OF CONFORMITY

Product Listing Scheme* : Class 1B

This Certificate is issued to
PowerCraft Electronics Pte Ltd
Blk 161, #07-01 Kallang Way
Singapore 349247

FOR
Product: Emergency Lighting (LED)
Brand: PowerCraft
Model: TED10NM
Country of Origin: Singapore
Product Details: Rated: 230-240V~ 50-60Hz
Lamp: WHITE LED 2 x 3.6V/1A
Battery: 2.5 Ah 4.8V Ni-Cd battery

which has complied with the requirements of the scheme and based on the following:

Standard(s)	Test Report(s)
CP 19 : 2000 with Amendment No. 1 : 2003 and Amendment No. 2 : 2006 SS 263 : Part 2 : 1998	5SS071321/A/KYM/THK, 5SS071321/KYM/THK, 5SS072962/KYM/THK

Vice-President (Certification Department)
TÜV SÜD PSB

Certificate No:	Date of Original Issue:	Date of Last Revision:	Date of Expiry:
022724	28/07/2008	25/07/2011	27/07/2014

* All products listed under Class 1A/1B must have this mark affixed / printed on them. Failure to comply with this requirement may result in revocation of this certificate.

This Certificate is part of a full report and should be read in conjunction with it. This Certificate remains the property of TÜV SÜD PSB Pte Ltd and shall be returned upon request. The use of this Certificate is subjected to the terms and conditions of the Product Listing Scheme. The manufacturer is solely responsible for compliance of any product that has the same designation as the product type-tested. Persons relying on this Certificate should verify its validity by checking TÜV SÜD PSB's website at www.tuv-sud-psb.com.

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CERTIFICATE OF CONFORMITY

No. CLS1B 13 01 81193 005

Certificate Holder: POWERCRAFT ELECTRONICS PTE LTD
KOLAM AYER INDUSTRIAL ESTATE
BLK 161 KALLANG WAY #07-01 TO 04,
SINGAPORE 349247
SINGAPORE

Certification Mark: TÜV SÜD PSB

Product: Emergency Lightings
Brand Name: PowerCraft
Model(s): EL28NM/1A
Product Details: Rated: 230-240V~ 50-60Hz
Load: 2 x 8W Fluorescent Lamp
Battery: 4.8V Ni-Cd 1.6Ah
Former CoC 022689
Standard(s): SS CP 19/A2:2005
SS 263-2:1998
Country of Origin Singapore
Test Report(s): See Appendix Issue 1 (1pg)
Issued on: 2013-01-14
Valid until: 2014-07-06

Products listed under Class 1B must have TÜV SÜD PSB PLS mark as shown above affixed/printed on them. Failure to comply with this requirement may result in revocation of this certificate.

Vice-President (Certification Department)
TÜV SÜD PSB

Page 1 of 2

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Emergency Lighting Solutions

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EMERGENCY LUMINAIRE RANGE


REL20NM-LED
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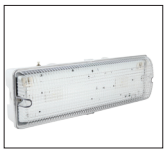

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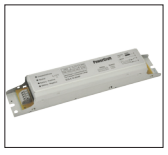
CONVERSION KITS


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ABOUT US

PowerCraft Electronics Pte Ltd is dedicated to providing high quality, reliable, innovative and technologically advanced products which fully comply to Singapore and European Safety standards for emergency lighting applications.

Formed in year 2000, in Singapore, it has since established a strong presence in Singapore and Asia-Pacific region.

Our manufacturing facilities are ISO9000 certified. We are a service oriented company with flexible manufacturing facilities to cater for our customer's individual requirements.







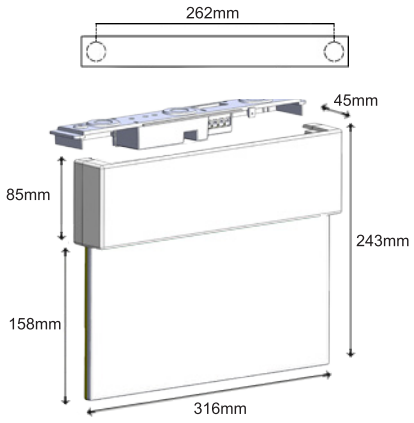


EXIT LUMINAIRE RANGE



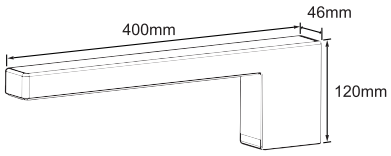
Quick Fit Surface LED

- Designed for fast installation and easy maintenance.
- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Extra low power consumption.
- High Quality, Long Life SMD LED module.
- High efficiency charger and LED converter.
- 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.
- Charge indicator and test switch.





Side mount option (wall extention)



TECHNICAL SPECIFICATIONS

Model Number :	EX-LED-M-QF
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
Mains Frequency :	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
Recharge Period :	< 24 Hours
Diffuser :	Acrylic plate (fire retardant)
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 1.2 Kg
Dimensions :	243mm (H) x 320mm (W) x 45mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)

F CLASS II

TÜV SÜD PSB Singapore

Type and batch tested with PSB PLS-LISTED LABEL

Ordering Guide:

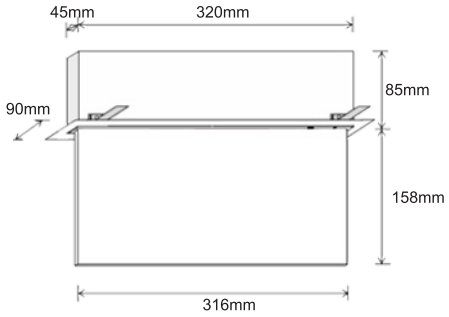
Legend	Single Sided	Double Sided
	EX-LED-M-QF-S-RM	EX-LED-M-QF-D-RM
	EX-LED-M-QF-SR-RM	EX-LED-M-QF-DR-RM
	EX-LED-M-QF-SL-RM	EX-LED-M-QF-DL-RM
EXIT	EX-LED-M-QF-S	EX-LED-M-QF-D
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EXIT	EX-LED-M-QF-SL	EX-LED-M-QF-DL

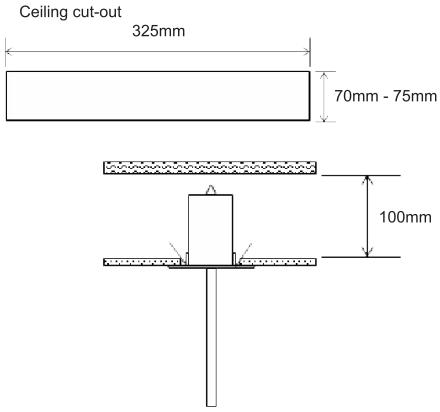
Note: Technical specifications subject to change without prior notice

PowerCraft
Emergency Lighting Solutions

Quick Fit Recess LED

- Designed for fast installation and easy maintenance.
- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Extra low power consumption.
- High Quality, Long Life SMD LED module.
- High efficiency charger and LED converter.
- 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.
- Charge indicator and test switch.







TECHNICAL SPECIFICATIONS

Model Number :	EX-LED-M-RS
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
Mains Frequency :	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
Recharge Period :	< 24 Hours
Diffuser :	Acrylic plate (fire retardant)
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 1.2 Kg
Dimensions :	243mm (H) x 320mm (W) x 45mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)

F

CLASS II

TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

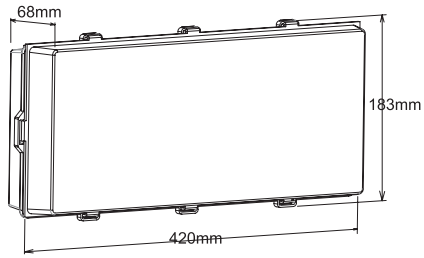
Ordering Guide:

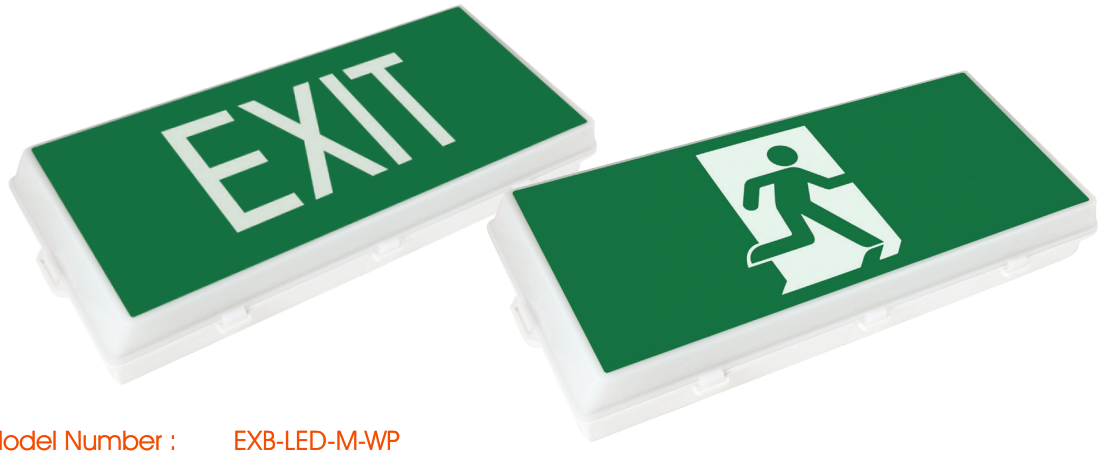
Legend	Single Sided	Double Sided
	EX-LED-M-RS-S-RM	EX-LED-M-RS-D-RM
	EX-LED-M-RS-SR-RM	EX-LED-M-RS-DR-RM
	EX-LED-M-RS-SL-RM	EX-LED-M-RS-DL-RM
EXIT	EX-LED-M-RS-S	EX-LED-M-RS-D
EXIT	EX-LED-M-RS-SR	EX-LED-M-RS-DR
EXIT	EX-LED-M-RS-SL	EX-LED-M-RS-DL

Note: Technical specifications subject to change without prior notice

Weatherproof LED

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds 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.
- High efficiency charger and LED converter.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge indicator and test switch.





TECHNICAL SPECIFICATIONS

Model Number :	EXB-LED-M-WP
Mode of Operation :	Maintained
Lamp :	1.2W White SMD LED module with burning life-span > 50,000 hours
Rated Duration :	3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	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
Recharge Period :	< 24 Hours
Diffuser :	Injection moulded with fire retardant (UL94), high impact material
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 1.2 Kg
Dimensions :	183mm (H) x 420mm (W) x 68mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)

F

IP65

CLASS II

TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

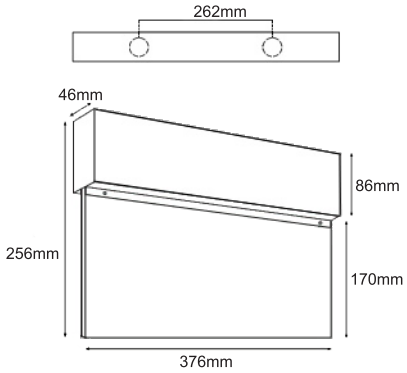
Ordering Guide:

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

Note: Technical specifications subject to change without prior notice

Slimline LED

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Extra low power consumption.
- High Quality, Long Life SMD LED module.
- High efficiency charger and LED converter.
- 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
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge indicator and test switch.





TECHNICAL SPECIFICATIONS

Model Number :	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
Mains Frequency :	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
Recharge Period :	< 24 Hours
Diffuser :	Acrylic plate (Fire retardant)
Fitting Construction :	Electro galvanized steel. Epoxy powder coating for casing and gear tray
Weight :	Approximately 2.1 Kg
Dimensions :	256mm (H) x 376mm (W) x 46mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)

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CLASS I

TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

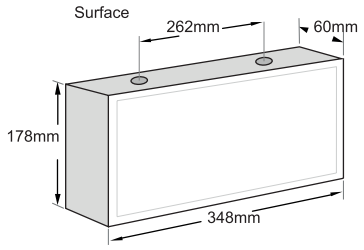
Ordering Guide:

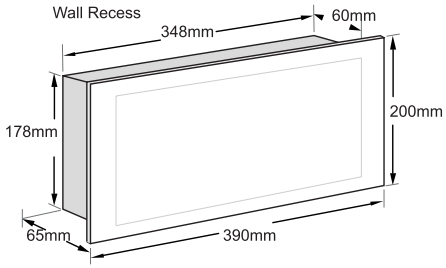
Legend	Single Sided	Double Sided
	EX-LED-M-S-RM	EX-LED-M-D-RM
	EX-LED-M-SR-RM	EX-LED-M-DR-RM
	EX-LED-M-SL-RM	EX-LED-M-DL-RM
EXIT	EX-LED-M-S	EX-LED-M-D
EXIT	EX-LED-M-SR	EX-LED-M-DR
EXIT	EX-LED-M-SL	EX-LED-M-DL

Note: Technical specifications subject to change without prior notice

Box LED

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Extra low power consumption.
- High Quality, Long Life SMD LED module.
- High efficiency charger and LED converter.
- 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.
- Charge indicator and test switch.







TECHNICAL SPECIFICATIONS

Model Number :	EXB-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
Mains Frequency :	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
Recharge Period :	< 24 Hours
Diffuser :	Acrylic plate (Fire retardant)
Fitting Construction :	Electro galvanized steel. Epoxy powder coating for casing and gear tray
Weight :	Approximately 1.5 Kg
Dimensions :	Surface mount: 178mm (H) x 348mm (W) x 60mm (D), Recess mount: 180mm (H) x 350mm (W) x 60mm (D) ; 200mm (H) x 390mm (W) x 65mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)

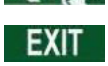
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CLASS I

TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

Ordering Guide:

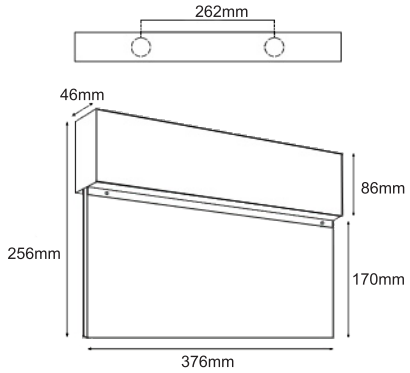
Legend	Surface Mount	Recess Mount
	EXB-LED-M-S-RM	EXB-LED-M-LV-S-RM
	EXB-LED-M-SR-RM	EXB-LED-M-LV-SR-RM
	EXB-LED-M-SL-RM	EXB-LED-M-LV-SL-RM
	EXB-LED-M-S	EXB-LED-M-LV-S
	EXB-LED-M-SR	EXB-LED-M-LV-SR
	EXB-LED-M-SL	EXB-LED-M-LV-SL

Note: Technical specifications subject to change without prior notice

PowerCraft
Emergency Lighting Solutions

Slimline Surface/Recess CCFL

- Add-on plate for recess mounting.
- Low power consumption CCFL meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Low power consumption.
- High Quality, Long Life CCFL lamps.
- High efficiency charger and CCFL inverter.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge indicator and test switch.





TECHNICAL SPECIFICATIONS

Model Number :	EX-CCFL-M
Mode of Operation :	Maintained
Lamp :	1 x 4W Cold Cathode Fluorescent Lamp (CCFL) > 30,000 hours
Rated Duration :	1 Hour / 2 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	7W, (Total standby power inclusive of CCFL converter)
Battery :	High Temperature Nickel Cadmium
Charger :	Variable trickle 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
Recharge Period :	< 24 Hours
Diffuser :	Acrylic plate (Fire retardant)
Fitting Construction :	Electro galvanized steel. Epoxy powder coating for casing and gear tray
Weight :	Approximately 2.1 Kg
Dimensions :	256mm (H) x 376mm (W) x 46mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)

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CLASS I

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PSB Singapore

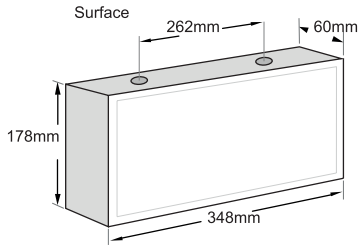
Type and batch tested with
PSB PLS-LISTED LABEL

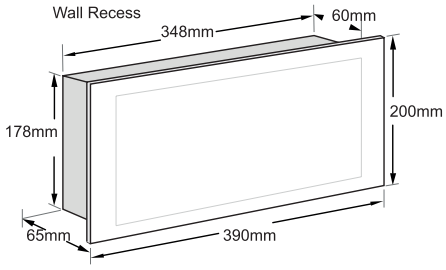
Ordering Guide:

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

Note: Technical specifications subject to change without prior notice

Box CCFL





- Low power consumption CCFL meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Low power consumption.
- High Quality, Long Life CCFL lamps.
- High efficiency charger and CCFL inverter.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge indicator and test switch.



TECHNICAL SPECIFICATIONS

Model Number :	EXB-CCFL-M
Mode of Operation :	Maintained
Lamp :	1 x 4W Cold Cathode Fluorescent Lamp (CCFL) > 30,000 hours
Rated Duration :	1 Hour / 2 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	7W, (Total standby power inclusive of CCFL converter)
Battery :	High Temperature Nickel Cadmium
Charger :	Variable trickle 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
Recharge Period :	< 24 Hours
Diffuser :	Acrylic plate (Fire retardant)
Fitting Construction :	Electro galvanized steel. Epoxy powder coating for casing and gear tray
Weight :	Approximately 1.5 Kg
Dimensions :	Surface mount: 178mm (H) x 348mm (W) x 60mm (D), Recess mount: 180mm (H) x 350mm (W) x 60mm (D) ; 200mm (H) x 390mm (W) x 65mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)

F CLASS I

TÜV SÜD PSB Singapore

Type and batch tested with PSB PLS-LISTED LABEL

Ordering Guide:

Legend	Surface Mount	Recess Mount
	EXB-CCFL-M-S-RM	EXB-CCFL-M-LV-S-RM
	EXB-CCFL-M-SR-RM	EXB-CCFL-M-LV-SR-RM
	EXB-CCFL-M-SL-RM	EXB-CCFL-M-LV-SL-RM
EXIT	EXB-CCFL-M-S	EXB-CCFL-M-LV-S
EXIT	EXB-CCFL-M-SR	EXB-CCFL-M-LV-SR
EXIT	EXB-CCFL-M-SL	EXB-CCFL-M-LV-SL

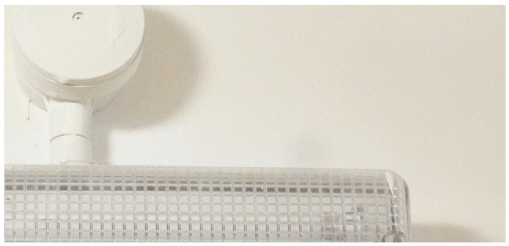
Note: Technical specifications subject to change without prior notice

EMERGENCY LUMINAIRE RANGE













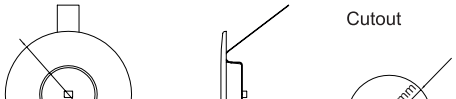


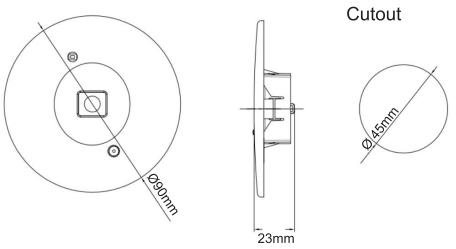


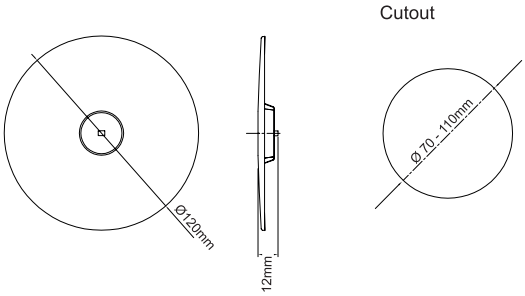
Recess LED

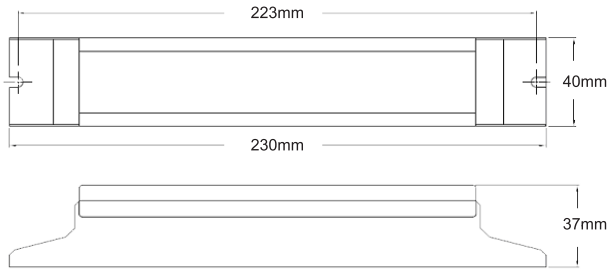
- Very wide spacing, double of traditional 10W halogen.
- Save up to 2/3 of the number of fittings used.
- Energy savings, extra low standby power consumption.
- Slim casing, fit thought 50mm hole.











TECHNICAL SPECIFICATIONS

Model Number :	REL20NM-LED
Mode of Operation :	Non-Maintained
Lamp :	3.6V / White LED
Rated Duration :	2 Hours / 3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	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
Recharge Period :	< 24 Hours
Fitting Construction :	Aluminum epoxy powder coated reflector Galvanised zinc coated charger housing
Weight :	Approximately 0.3 kg
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)

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CLASS I

TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

Ordering Guide:

Ordering Code

REL20NM-LED-60MM

REL20NM-LED-90MM

REL20NM-LED-120MM

Note: Technical specifications subject to change without prior notice

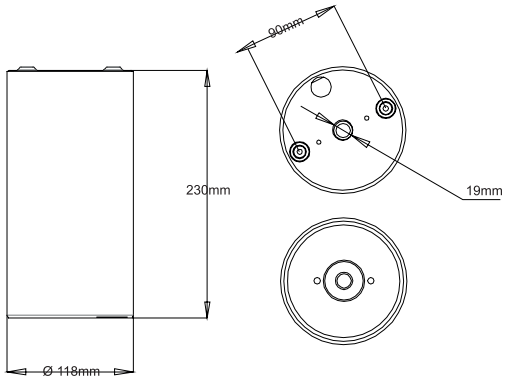
Surface LED

- 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.

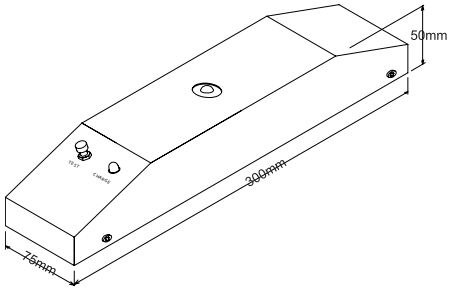




REL20NM-LED Cylinder



REL20NM-LED Gearbox



TECHNICAL SPECIFICATIONS

Model Number :	REL20NM-LED
Mode of Operation :	Non-Maintained
Lamp :	3.6V / White LED
Rated Duration :	2 Hours / 3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 1.5W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Momentary test switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Epoxy powder coated cold-rolled steel
Weight :	Approximately 1.2 kg
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)

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CLASS I

TÜV SÜD

PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

Ordering Guide:

Ordering Code
REL20NM-LED-cylinder
REL20NM-LED-gearbox

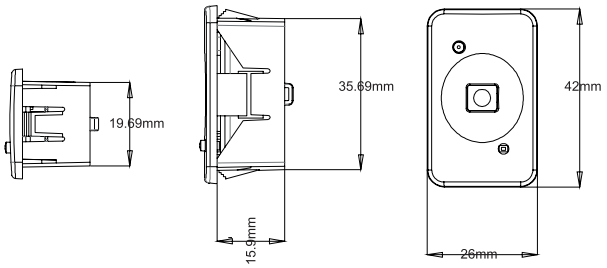
Note: Technical specifications subject to change without prior notice

Self-Contained /Sustained LED

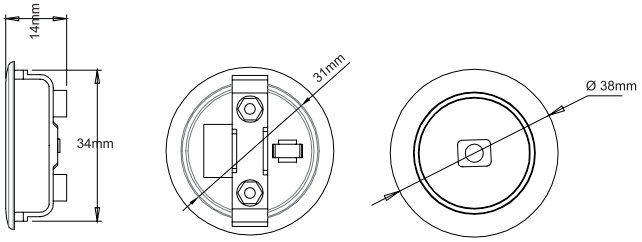
- Prevents damage to fluorescent lamp.
- Very wide spacing.
- Energy savings, extra low standby power consumption.

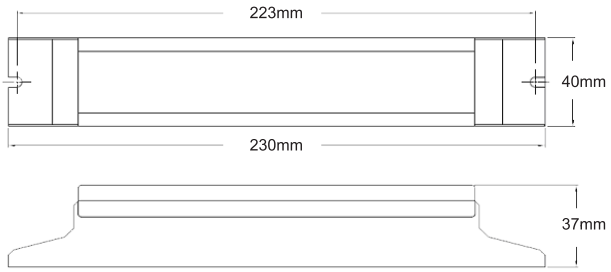


REL20NM-LED module



REL20NM-LED 38mm





TECHNICAL SPECIFICATIONS

Model Number :	REL20NM-LED
Mode of Operation :	Non-Maintained
Lamp :	3.6V / White LED
Rated Duration :	2 Hours / 3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	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
Recharge Period :	< 24 Hours
Fitting Construction :	Galvanised zinc coated charger housing
Weight :	Approximately 0.3 kg
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)

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CLASS I

TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

Ordering Guide:

Ordering Code

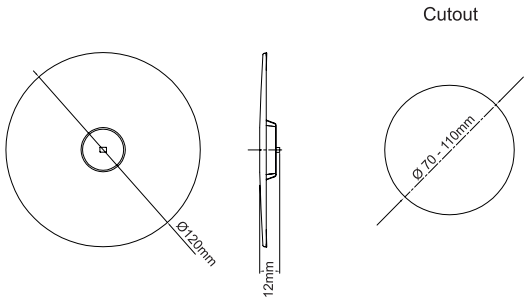
REL20NM-LED-38MM

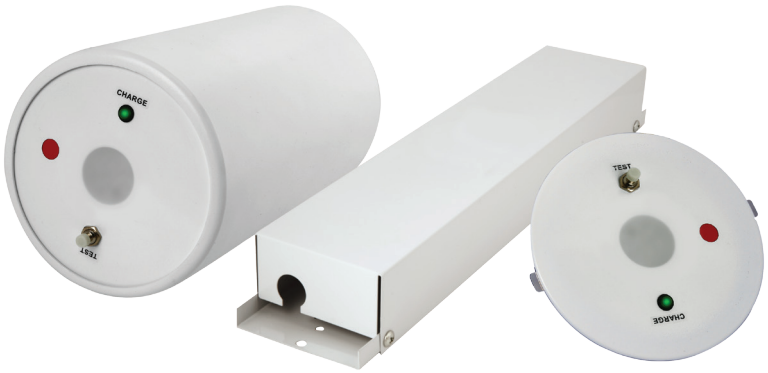
REL20NM-LED-module

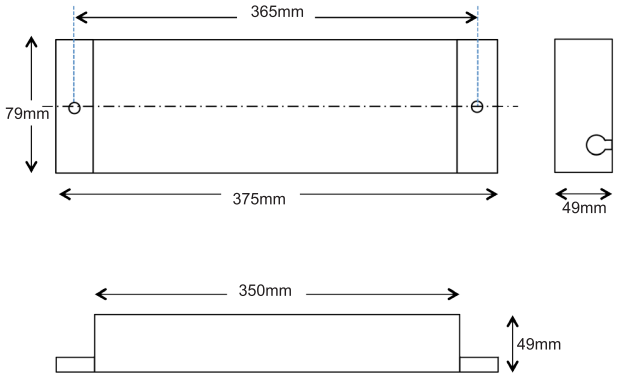
Note: Technical specifications subject to change without prior notice

Recess LED

- Very wide spacing, equivalent to 50W halogen.
- Energy savings, extra low standby power consumption.
- Suitable for high ceiling mounting.







TECHNICAL SPECIFICATIONS

Model Number :	REL50NM-LED	REL50M-LED
Mode of Operation :	Non-Maintained	Maintained
Lamp :	50.4V / 0.2A / White LED	
Rated Duration :	2 Hours	
Mains Supply :	220-240 Volts	
Mains Frequency :	50-60Hz	
Power Consumption :	2.5W	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	
Recharge Period :	< 24 Hours	
Fitting Construction :	Aluminum epoxy powder coated reflector Steel (charger housing)	
Weight :	Approximately 1.3 kg	
Standards / Compliance :	IEC 61347-2-13, IEC 62384 ,SS 563	
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)	

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CLASS I

TÜV SÜD

PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

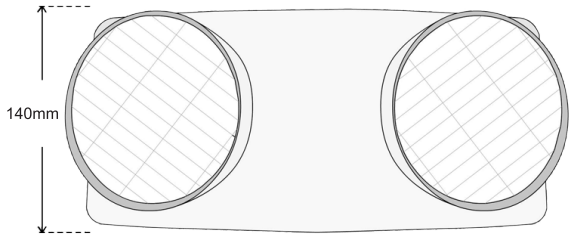
Ordering Guide:

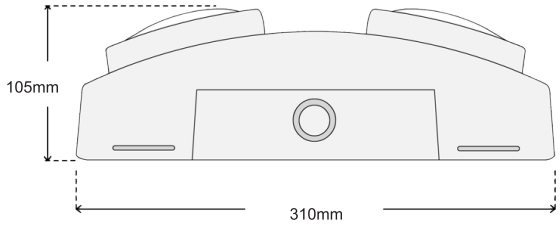
Ordering Code	
Non-Maintaned	Maintained
REL50NM-LED-120MM	REL50M-LED-120MM
REL50NM-LED-Cylinder	REL50M-LED-Cylinder

Note: Technical specifications subject to change without prior notice

Twin-spot LED

- Fire Retardant (UL94) housing and UV stabilised Diffuser.
- Snap in design, suitable for indoor and damp area applications.
- Low heat generation, ensures longer and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.









With Weatherproof Enclosure Housing

TECHNICAL SPECIFICATIONS

Model Number :	TED10NM
Mode of Operation :	Non-maintained
Lamp :	2 x 3.6V / 1A Power LED module
Rated Duration :	2 Hours (3 Hours on request)
Mains Supply :	220-240 Volts
Mains Frequency :	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
Recharge Period :	< 24 Hours
Fitting Construction :	Moulded Fire retardant (UL94) housing and diffuser.
Weight :	Approximately 1.5 Kg
Dimensions :	310mm (W) x 140mm (H) x 105mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)

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CLASS II

TÜV SÜD

PSB Singapore

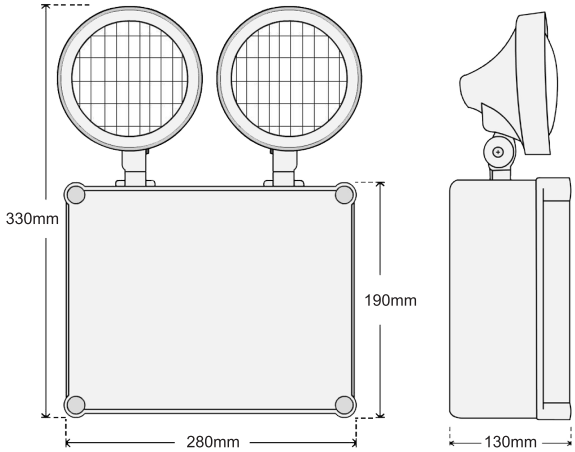
Type and batch tested with PSB PLS-LISTED LABEL

Note: Technical specifications subject to change without prior notice

PowerCraft
Emergency Lighting Solutions

Weatherproof Twin Spot LED

- Weatherproof design suitable for outdoor applications.
- Low heat generation, ensures longer and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test button.





TECHNICAL SPECIFICATIONS

Model Number :	TED10NM(WP)
Mode of Operation :	Non maintained
Lamp :	2 x 3.6V / 1A Power LED module
Rated Duration :	2 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 1.5W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Momentary test switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Moulded Fire retardant (UL94) housing and diffuser.
Weight :	Approximately 2.5 Kg
Dimensions :	330mm (W) x 280mm (H) x 130mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)

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IP65

CLASS II

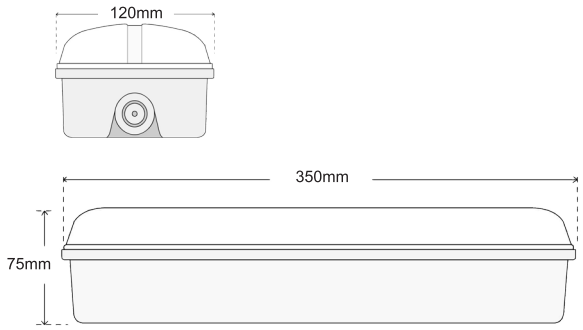
TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

Note: Technical specifications subject to change without prior notice

T5 Fluorescent Bulkhead

- Weatherproof design suitable for indoor and outdoor applications.
- Fire Retardant (UL94) housing and UV stabilised Diffuser.
- Low heat generation, ensures longer and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.





TECHNICAL SPECIFICATIONS

Model Number :	EL18NM/1A	EL28NM/1A
Mode of Operation :	Non maintained	
Lamp :	1 x 8W/T5 Fluorescent Lamp	2 x 8W/T5 Fluorescent Lamp
Rated Duration :	2 Hours (3 Hours on request)	
Mains Supply :	220-240 Volts	
Mains Frequency :	50-60Hz	
Power Consumption :	< 4.0W	
Battery :	High Temperature Nickel Cadmium	
Charger :	Variable rate, Short circuit protected	
Charge Monitor :	LED	
Degree of protection (Against dust and moisture)	IP54 (IP65 with Test Switch mounted internally)	
Test Facility :	Momentary test switch	
Safety Features :	Low battery voltage cut off to prevent over discharge	
Recharge Period :	< 24 Hours	
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material	
Weight :	Approximately 1.0 Kg	
Dimensions :	350mm (W) x 120mm (H) x 75mm (D)	
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563	
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)	

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IP65

CLASS I

TÜV SÜD

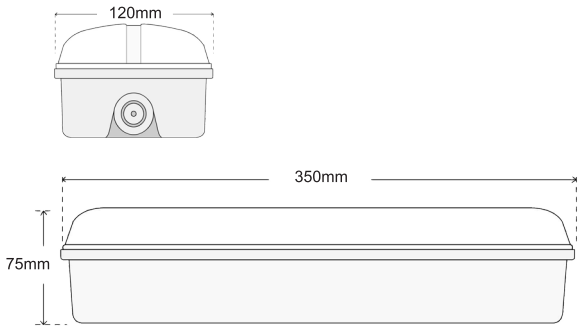
PSB Singapore

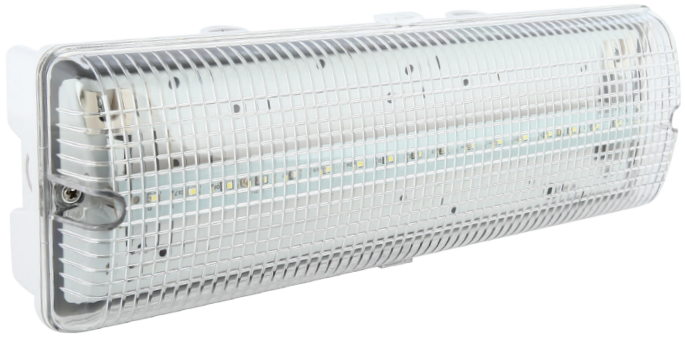
Type and batch tested with **PSB PLS-LISTED LABEL**

PowerCraft
Emergency Lighting Solutions

LED Bulkhead

- Weatherproof design suitable for indoor and outdoor applications.
- Fire Retardant (UL94) housing and UV stabilised Diffuser.
- Low heat generation, ensures longer and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.





TECHNICAL SPECIFICATIONS

Model Number :	EL-LED1
Mode of Operation :	Maintained / Non maintained
Lamp :	LED module (17 x 0.1W)
Rated Duration :	2 Hours (3 Hours on request)
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 4.0W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate, Short circuit protected
Charge Monitor :	LED
Degree of protection (Against dust and moisture)	IP54 (IP65 with Test Switch mounted internally)
Test Facility :	Momentary test switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 1.0 Kg
Dimensions :	350mm (W) x 120mm (H) x 75mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)

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IP65

CLASS II

TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

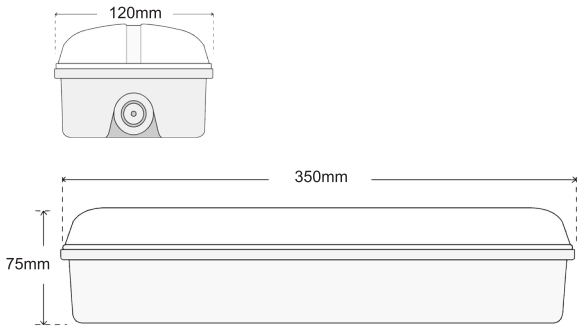
Ordering Guide:

Ordering Code
EL-LED1-NM
EL-LED1-M

Note: Technical specifications subject to change without prior notice

LED Bulkhead

- Weatherproof design suitable for indoor and outdoor applications.
- Fire Retardant (UL94) housing and UV stabilised Diffuser.
- Low heat generation, ensures longer and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.





TECHNICAL SPECIFICATIONS

Model Number :	EL-LED2-NM
Mode of Operation :	Non maintained
Lamp :	2 x 3.6V / 1A power LED module
Rated Duration :	2 Hours (3 Hours on request)
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 1.5W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate, Short circuit protected
Charge Monitor :	LED
Degree of protection (Against dust and moisture)	IP54 (IP65 with Test Switch mounted internally)
Test Facility :	Momentary test switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 1.0 Kg
Dimensions :	350mm (W) x 120mm (H) x 75mm (D)
Standards / Compliance :	IEC 60598-2-22 ,SS 263 Part 2, SS 563
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)

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IP65

CLASS II

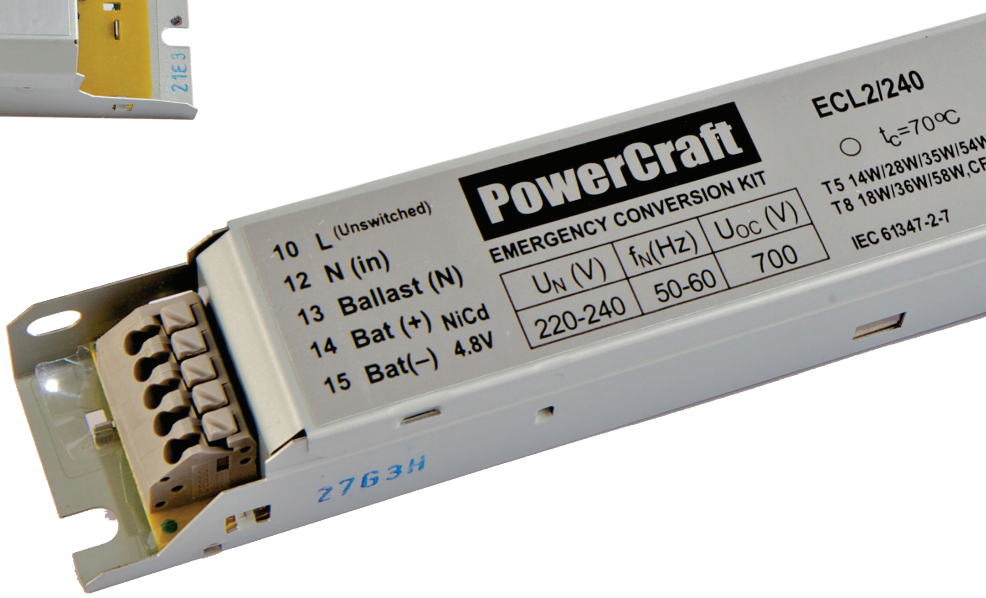
TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

Note: Technical specifications subject to change without prior notice

CONVERSION KITS

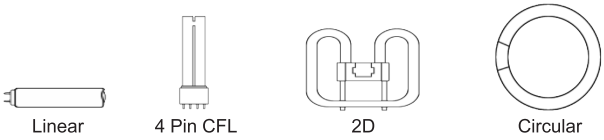




ECP - Professional Range

- Filament Conditioning prevents premature filament damage (Black ends).
- Four pole relay configuration at lamp for total isolation.
- Suitable for T5, T8, CFL and 2D fluorescent lamps.
- Short-circuit protection at battery terminals.
- IC controlled dual rate charging.







F

CLASS I

TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

TECHNICAL SPECIFICATIONS

Mode of Operation :	Maintained / Non-maintained
Lamp Type :	T5, T8 Fluorescent, 4 Pin CFL and 2D Lamps
Rated Duration :	1 Hour / 2 Hours / 3 Hours
Supply Voltage :	220 - 240V, 50 - 60Hz
Supply Current	20mA - 35mA
Power Consumption :	< 4.5W
Trickle Charge :	125mA
Battery Charger :	Dual Rate
Battery Charging Time :	< 24 Hours
Battery Protection :	Low Battery Voltage Cut-off (Prevents Battery Over Discharge)
Battery Type :	High Temp 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
Approvals Standards :	IEC 61347-2-7 (SS 490-2-7), SS 563

Ordering Guide:

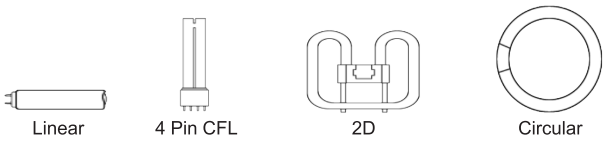
Ordering Code	Battery Type	Battery configuration
ECP36 / 240 / 4.8 / 2.5 - A	NiCd 4.8V 2.5AH	Cane
ECP36 / 240 / 4.8 / 2.5 - S	NiCd 4.8V 2.5AH	Side by side
ECP36 / 240 / 4.8 / 4.5 - A	NiCd 4.8V 4.5AH	Cane
ECP36 / 240 / 4.8 / 4.5 - A+A	NiCd 4.8V 4.5AH	Cane + cane
ECP58 / 240 / 4.8 / 2.5 - A	NiCd 4.8V 2.5AH	Cane
ECP58 / 240 / 4.8 / 2.5 - S	NiCd 4.8V 2.5AH	Side by side
ECP58 / 240 / 4.8 / 4.5 - A	NiCd 4.8V 4.5AH	Cane
ECP58 / 240 / 4.8 / 4.5 - A+A	NiCd 4.8V 4.5AH	Cane + cane
ECPFH / 240 / 4.8 / 2.5 - A	NiCd 4.8V 2.5AH	Cane
ECPFH / 240 / 4.8 / 2.5 - S	NiCd 4.8V 2.5AH	Side by side
ECPFH / 240 / 4.8 / 4.5 - A	NiCd 4.8V 4.5AH	Cane
ECPFH / 240 / 4.8 / 4.5 - A+A	NiCd 4.8V 4.5AH	Cane + cane

Note: Technical specifications subject to change without prior notice

ECS - Standard Range

- 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.







TECHNICAL SPECIFICATIONS

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
Supply Voltage :	220 - 240V, 50 - 60Hz
Supply Current	20mA - 35mA
Power Consumption :	< 4.5W
Trickle Charge :	80mA
Battery Charger :	Dual Rate
Battery Charging Time :	< 24 Hours
Battery Protection :	Low Battery Voltage Cut-off (Prevents Battery Over Discharge)
Battery Type :	High Temp 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
Approvals Standards :	IEC 61347-2-7 (SS 490-2-7), SS 563

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CLASS I

TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

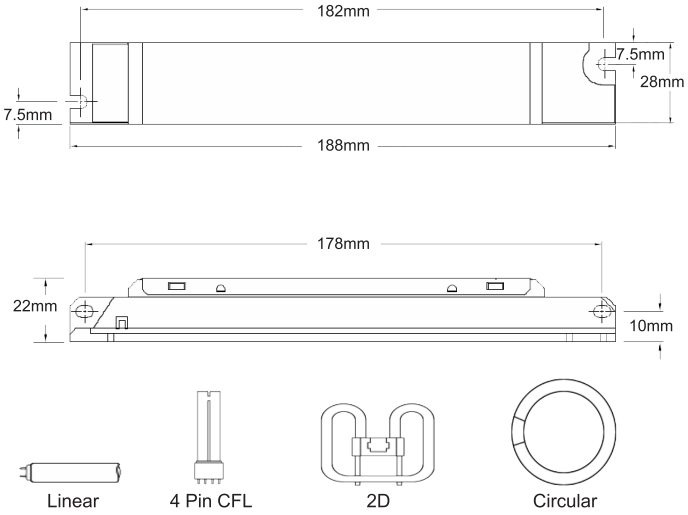
Ordering Guide:

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

Note: Technical specifications subject to change without prior notice

ECL - Low Profile Range

- Suitable for T5, T8, CFL and 2D fluorescent lamps.
- Extra low standby power consumption.
- Low-profile casing (22mm x 28mm cross-section).
- Five-pole relay configuration.
- Ballast control output ensures compatability with most high frequency ballast.
- Short-circuit protection.





CLASS I

PSB Singapore

Type and batch tested with PSB PLS-LISTED LABEL

TECHNICAL SPECIFICATIONS

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
Supply Voltage :	220 - 240V, 50 - 60Hz (110 - 240V on request)
Supply Current	20mA
Power Consumption :	< 2.0W
Trickle Charge :	80mA / 125mA / 225mA
Battery Charger :	Regulated variable rate
Battery Charging Time :	< 24 Hours
Battery Protection :	Low Battery Voltage Cut-off (Prevents Battery Over Discharge)
Battery Type :	High Temp Nickel-Cadmium (NiCd) / Nickel-Metal Hydride (NiMH)
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
Approvals Standards :	IEC 61347-2-7 (SS 490-2-7), SS 563

Ordering Guide:

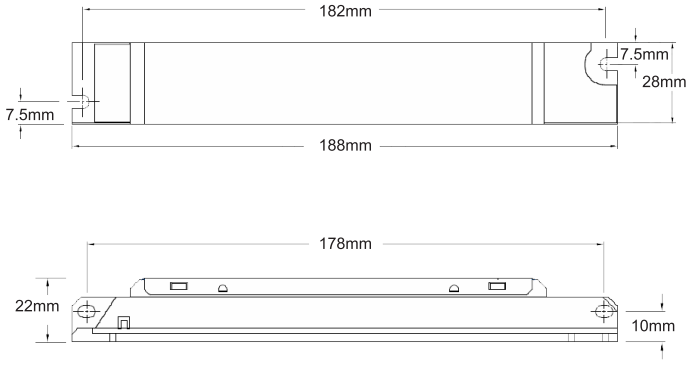
Ordering Code	Battery Type	Battery configuration
ECL1 / 240 / 3.6 / 2.5 - A	NiCd 3.6V 2.5AH	Cane
ECL1 / 240 / 3.6 / 1.6 - S	NiCd 3.6V 1.6AH	Side by side
ECL2 / 240 / 4.8 / 1.3 - S	NiMH 4.8V 1.3AH	Side by side
ECL2 / 240 / 4.8 / 1.6 - A	NiCd 4.8V 1.6AH	Cane
ECL2 / 240 / 4.8 / 1.6 - S	NiCd 4.8V 1.6AH	Side 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
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
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 specifications subject to change without prior notice

PowerCraft
Emergency Lighting Solutions

ECL - LED Range

- LED load.
- Suitable for a wide range LED load voltage range.
- Extra low standby power consumption.
- Low-profile casing (22mm x 28mm cross-section).
- Regulated charger output.
- Available for 2 hours / 3 hours.
- High Temperature, 70°C NiCd battery(NiMH available on request).





Model Number :	ECL-LED1	ECL-LED2
Mode of Operation :	Maintained / Non-maintained	
Lamp Type :	3 - 70V LED load	
Emergency Mode Duration :	2 Hours / 3 Hours	2 hours
Supply Voltage:	220-240 Volts, 50 - 60Hz	
Supply Current :	20mA	40mA
Power Consumption :	< 2.0W	< 4.0W
Trickle Charge :	80mA / 125mA	125mA / 225mA
Battery Charger :	Regulated variable rate	
Battery Charging Time :	< 24 Hours	
Battery Protection:	Low Battery Voltage Cut-off (Prevents Battery Over Discharge)	
Battery Type :	High Temperature Nickel-Cadmium (NiCd)	
Mains Monitor :	LED	
Test Facility:	Momentary test switch	
Casing Construction :	Electro-galvanised steel	
Max. Casing Temp, Tc :	70°C	
Max. Ambient Temp, Tc :	50°C	
Approvals Standard :	-IEC 61347-2-7 (SS 490-2-7), IEC 61347-2-13, IEC 62384, SS 563	

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CLASS I

TÜV SÜD
PSB Singapore

Type and batch tested with
PSB PLS-LISTED LABEL

Ordering Guide:

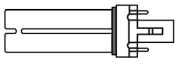
Ordering Code	Battery Type	Battery configuration
ECL-LED1 / 240 / 3.6 / 1.6 - A	NiCd 3.6V 1.6AH	Cane
ECL-LED1 / 240 / 3.6 / 1.6 - S	NiCd 3.6V 1.6AH	Side by side
ECL-LED1 / 240 / 3.6 / 2.5 - A	NiCd 3.6V 2.5AH	Cane
ECL-LED1 / 240 / 3.6 / 2.5 - S	NiCd 3.6V 2.5AH	Side by side
ECL-LED2 / 240 / 4.8 / 2.5 - 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	Cane + Cane

Note: Technical specifications subject to change without prior notice

ECS-S Range

- Specially designed for compact fluorescent lamps with integral start (PL/PLC), single, double or triple U lamps.
- IC controlled PWM (Pulse Width Modulated) circuit ensures ignition of cold lamp and power down of faulty lamp or internal starter.
- For use with lamps up to 26W.
- Available for 2 hours / 3 hours.
- High Temperature, 70°C NiCd battery.





2 Pin CFL



TECHNICAL SPECIFICATIONS

Mode of Operation :	Maintained / Non-maintained
Lamp Type :	Compact fluorescent lamps with integral starter (2-Pin lamp)
Emergency Mode Duration :	2 Hours / 3 Hours
Supply Voltage :	220 - 240V, 50 - 60Hz
Supply Current	20mA - 35mA
Power Consumption :	< 4.5W
Trickle Charge :	80mA
Battery Charger :	Variable rate
Battery Charging Time :	< 24 Hours
Battery Protection :	Low Battery Voltage Cut-off (Prevents Battery Over Discharge)
Battery Type :	High Temp Nickel-Cadmium (NiCd)
Mains Monitor :	LED
Test Facility :	Momentary test switch
Casing Construction :	Electro-galvanised steel
Max. Casing Temp, Tc :	70°C
Max. Ambient Temp, Ta :	50°C
Approvals Standards :	IEC 61347-2-7 (SS 490-2-7) (partial)



CLASS I

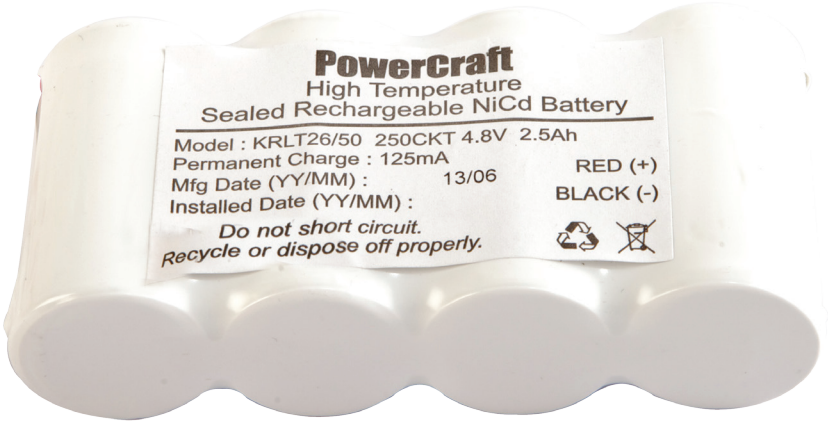
Ordering Guide:

Ordering Code	Battery Type	Battery configuration
ECS-S 5-11 / 240 / 9.6 / 1.6 - S+S	NiCd 9.6V 1.6AH	Side by side
ECS-S 10-26 / 240 / 9.6 / 1.6 - S+S	NiCd 9.6V 1.6AH	Side by side
ECS-S 10-26 / 240 / 9.6 / 2.5 - S+S	NiCd 9.6V 2.5AH	Side by side

Note: Technical specifications subject to change without prior notice

BATTERY PACKS





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 Ø24
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 Ø27
NiCd 3.6V 2.5AH	Side by side (3 x 1)	3	C	80 x 50 x 27
NiMH 4.8V 1.3AH	Side by side (2 x 2)	4	AA	105 x 30 x 16
NiCd 4.8V 1.6AH	Cane (1 x 4)	4	Sub-C	174 x Ø24
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 Ø27
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 Ø34
NiCd 4.8V 4.5AH	Cane + Cane (1 x 2) + (1 x 2)	2 + 2	D	(121 x Ø34) + (121 x Ø34)
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

Note: Technical specifications subject to change without prior notice



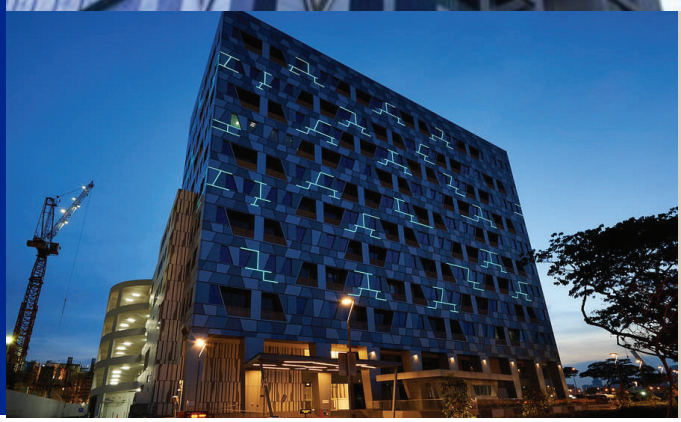





greenwich


DOUBLETREE
DOUBLETREE
BY HILTON
JAKARTA - DIPONEGORO
Where the little things mean everything
ACCEPTING BOOKINGS
FROM MAY 2014





PowerCraft

Emergency Lighting Solutions

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Email: info@powercraftelec.com