PowerCraft

Emergency Lighting Solutions





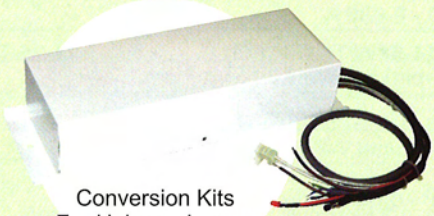
Conversion Kits
For Fluorescent Lamps
(Professional Range)



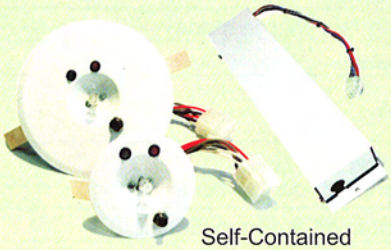
Conversion Kits
For Fluorescent Lamps
(Standard Range)



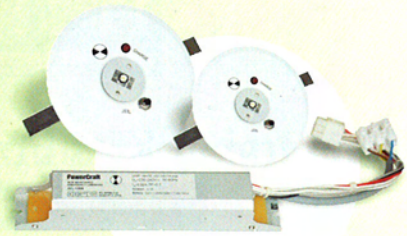
Conversion Kits
For 2-Pins Compact
Fluorescent Lamps



Conversion Kits
For Halogen Lamps



Self-Contained
Halogen Emergency Luminaire



Self-Contained
LED Emergency Luminaire



Self-Contained
Emergency Luminaire



Self-Contained
Emergency Luminaire



Self-Contained
(Recessed Mounting)
Emergency EXIT Luminaire



Self-Contained
(Surface Mounting)
CCFL Emergency EXIT Luminaire



Self-Contained CCFL
BOX Emergency EXIT Luminaire

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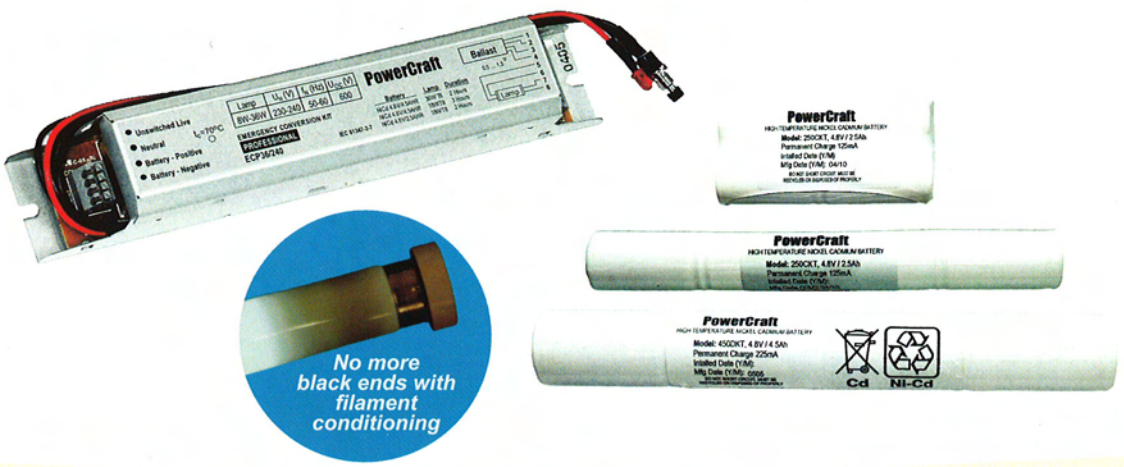
Conversion Kits For Fluorescent Lamps

ECP - PROFESSIONAL RANGE



Features

- Filament conditioning (heating during discharge) to eliminate premature filament damage (black ends)
- Suitable for linear and 4 pin compact fluorescent lamps up to 58W, 1, 2 or 3 hour duration.
- IC controlled Dual rate Charger for energy savings.
- Short circuit protection at battery terminals
- Four pole relay configuration at lamp circuit for total isolation.
- Low battery voltage **cut-off** with latch function, to eliminate battery over discharge
- Certified by PSB, PLS listed.
- High temperature, 70°C Nickel Cadmium battery pack and 105°C electronic components
- Charge indicator and Test push button switch

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PSB Corporation
PSB TEST

Full Ordering Code	ECP36/240/ 4.8/2.5/60M	ECP36/240/ 4.8/4.5/120M	ECP58/240/ 4.8/2.5/60M	ECP58/240/ 4.8/4.5/180M	ECPFH/240/ 4.8/2.5/120M	ECPFH/240/ 4.8/4.5/180M
Supply Voltage	220-240 Volts / 50-60Hz					
Supply Current	0.020 - 0.035 A					
Applicable Lamps	8-36W/T8 & 14-35/T5 (FH) CFL (4-pin) 5-24W		18-58W/T8 & 14-54W/T5 (FH,FQ) CFL (4-pin) 5-24W		14-35/T5 (FH)	
Battery Pack Capacity	2.5Ahr	4.0/4.5Ahr	2.5Ahr	4.5Ahr	2.5Ahr	4.0/4.5Ahr
Battery Pack Voltage	4.8V	4.8V	4.8V	4.8V	4.8V	4.8V
Rated Duration	2 Hrs/18W lamp or 1 Hr/36W lamp	2 Hrs/36W lamp or 3 Hrs/18W lamp	1 Hr/58W lamp or 3 Hrs/18W lamp	3 Hrs/58W lamp	2 Hrs/35W lamp	3 Hr/35W lamp
Battery	Charger Dual Rate					
Trickle	Charge 125mA					
Mains Monitor	Red LED (Flashing during fast charge mode)					
Recharge Period	24 Hours					
Power Consumption (Steady State)	4.5 W					
Inverter Frequency	21-50 KHz operating with lamp 35-65KHz when operating without the lamp					
Application	Emergency lighting only (Maintained & non-maintained)					
Relevant Standards	IEC 61347-2-7					
Approvals	PSB Type test, PSB PLS (Product Listing Scheme)					
Max Casing Temp, tc	70°C					
Max Ambient Temp, ta	40°C					
Casing Dimensions	37mm (H) x 40mm (W) x 240mm (L)					
Mounting Distance	222mm x 4mm (Diameter)					

Rev 7.0, 31/08/07

Note: Technical specifications subject to change without prior notice.

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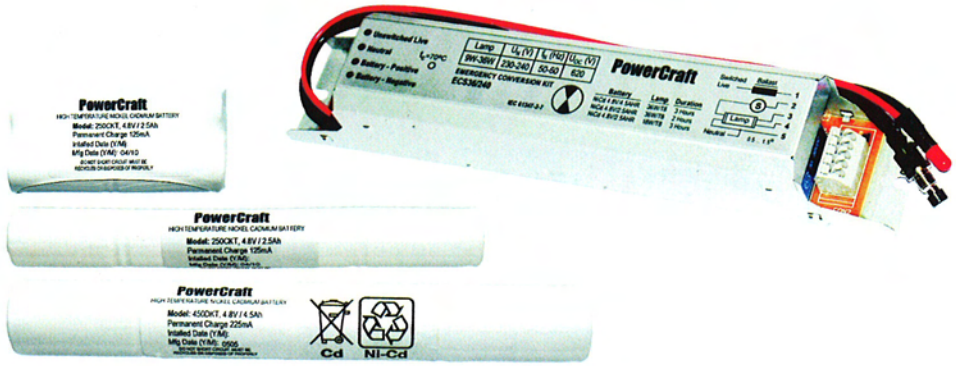
Conversion Kits For Fluorescent Lamps

ECS - STANDARD RANGE



Features

- Suitable for linear and 4 pin compact fluorescent lamps up to 36W, 1, 2 or 3 hour duration.
- IC controlled Dual rate Charger for energy savings.
- Short circuit protection at battery terminals.
- Low battery voltage **cut-off** with latch function, to eliminate battery over discharge
- Certified by PSB, PLS listed.
- High temperature, 70°C Nickel Cadmium battery pack and 105°C electronic components.
- Charge indicator and Test push button switch.

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PSB Corporation
PSB TEST

Model Number	ECS36/240/4.8/1.6/60M	ECS36/240/4.8/2.5/120M	ECS36/240/4.8/4.5/180M
Supply Voltage		220-240 Volts / 50-60Hz	
Supply Current		0.020-0.035A	
Lamps		5W-40W/T12, T8, T5 or CFL	
Battery Pack	1.6AHr	2.5AHr	4.5AHr
Battery Voltage	4.8V	4.8V	4.8V
Rated Duration	2 Hours with 18W lamp or 1 Hour with 36W lamp	2 Hours with 36W lamp or 3 Hours with 18W lamp	3 Hours with 36W lamp
Power Consumption (Steady State)	< 4.0W	< 4.5W	< 4.5W
Trickle Charge		80mA	
Battery Charger		Dual Rate	
Recharge Period		24 Hours	
Mains Monitor		Red LED (Flashing during fast charge mode)	
Inverter Frequency		21-50KHz operating with lamp 35-65KHz when operating without the lamp	
Application		Emergency lighting only (Maintained & non-maintained)	
Relevant Standards		IEC 61347-2-7	
Approvals		PSB Type test, PSB PLS (Product Listing Scheme)	
Max Casing Temp, tc		70°C	
Max Ambient Temp, ta		40°C	
Special Features		Protection against short circuit at battery terminals Can be used on class I and class II luminaire	
Casing Dimensions		37mm (H) x 40mm (W) x 240mm (L)	
Mounting Distance		222mm x 4mm (Diameter)	

Rev 7.0, 31/08/07

Note: Technical specifications subject to change without prior notice.

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Conversion Kits For 2-Pins Compact Fluorescent Lamps



Features

- Specifically designed for compact fluorescent lamps with integral starter (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.
- Full range, for all lamps up to 26W, 2 and 3 hours backup operation.
- High efficiency charger.
- Low battery voltage **cut-off** with latch function, to eliminate battery over discharge.
- High temperature, 70°C Nickel Cadmium battery pack and 105°C electronic components.
- Charge indicator and Test push button switch.

Model Number	ECS-S 5-11/240/9.6/1.6/120M	ECS-S 10-26/240/9.6/1.6/120M	ECS-S 10-26/240/9.6/2.5/180M
Supply Voltage	220-240 Volts / 50-60Hz		
Supply Current	0.020-0.030A		
Lamps	Compact Fluorescent Lamps with integral Starter (2-PIN LAMPS)		
Battery Pack	1.6AHr	1.6AHr	2.5AHr
Battery Voltage	9.6V	9.6V	9.6V
Suitable lamps	5-11W	10-26W	10-26W
Rated Duration	2 Hours	2 Hours	3 Hours
Power Consumption (Steady State)	< 4.5W	< 4.5W	< 4.5W
Trickle Charge	80mA		
Battery Charger	Variable Rate		
Recharge Period	24 Hours		
Mains Monitor	Red LED		
Inverter Frequency	21-50KHz operating with lamp		
Application	Emergency lighting only (Maintained & non-maintained)		
Relevant Standards	IEC 61347-2-7 (For reference)		
Max Casing Temp, tc	70°C		
Max Ambient Temp, ta	40°C		
Casing Dimensions	37mm (H) x 40mm (W) x 240mm (L)		
Mounting Distance	222mm x 4mm (Diameter)		

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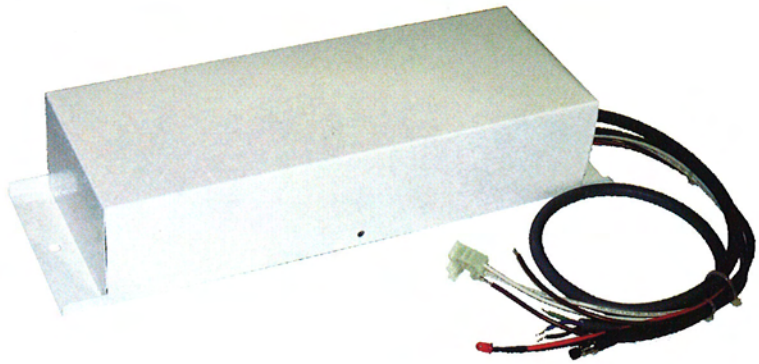
Conversion Kits For Halogen Lamps



Features

- Suitable for all 12V lamps up to 50W.
- High grade SLA battery.
- IC controlled, voltage and current limited Charger.
- Precise standby battery voltage control to extend battery life in standby mode.
- Low battery voltage circuit protection.
- Low battery voltage **cut-off** with latch function, to eliminate battery over discharge
- Charge indicator and Test push button switch.

Model Number	**ECH50/240/12/7/120M**	
Supply Voltage	220-240 Volts / 50-60Hz	
Supply Current	0.050A	
Lamps	12 Volts / 10-50W Halogen	
Battery Pack	High grade SLA 7AH	
Battery Voltage	12Vdc	
Suitable Lamps	20W	50W
Rated Duration	> 3 Hours	> 1 Hour (Typical 1.5 hours)
Power Consumption (Steady State)	< 4.0W	
Mode of operation	Maintained or Non maintained	
Battery Charger	Voltage and current regulated, short circuit and overload protected	
Recharge Period	24-48 Hours	
Mains Monitor	Red LED	
Inverter Frequency	DC operation with low voltage cut off	
Application	Emergency / Backup lighting only (Maintained & non-maintained)	
Max Casing Temp, tc	45°C	
Max Ambient Temp, ta	40°C	
Weight	4.2Kg	
Casing Dimensions	70mm (H) x 115mm (W) x 345mm (L)	
Mounting Distance	325mm x 4mm (Diameter)	

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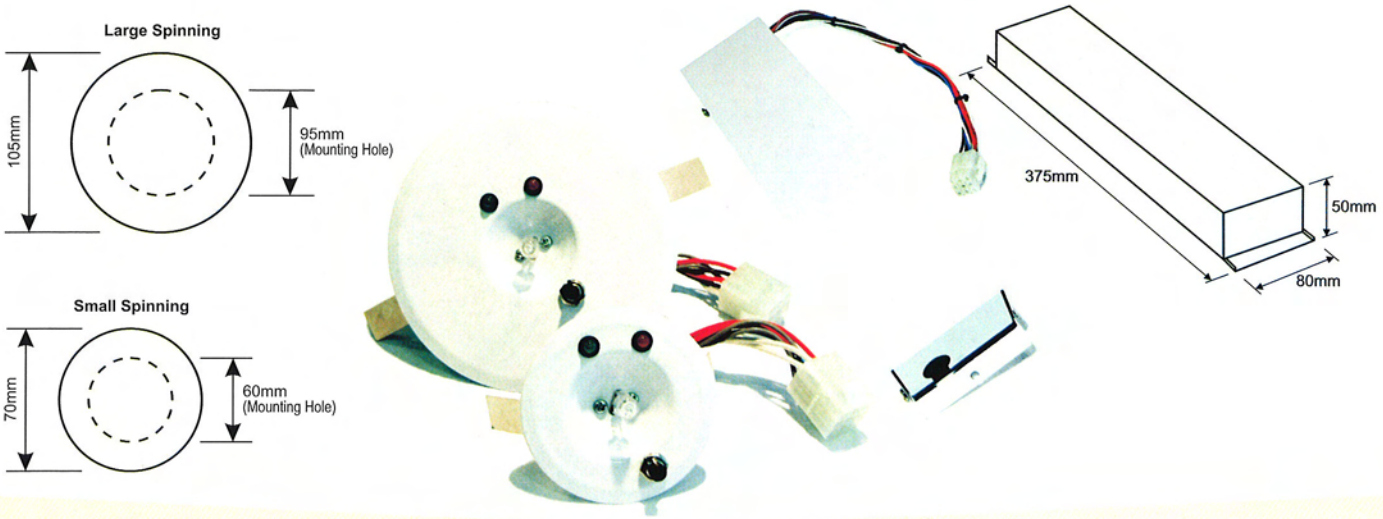
Self-Contained Halogen Emergency Luminaire



Features

- Non-obstructing design featuring a powerful 10 watt lamp.
- Recessed mounting.
- Dual rate charge enables energy savings and faster re-charge.
- Low battery voltage **cut-off** with latch function, to eliminate battery over discharge.
- High temperature, 70°C Nickel Cadmium battery pack and 105°C electronic components.
- Remote electronics and battery pack coupled with low heat generation, ensures longer and reliable service life.
- High quality quick fit connector enables separate installation of inverter and spinning assembly.
- Charge and Lamp LED indicators.

Model Number	REL10NM
Classification	C_0/B12.5 and C_{90}/B12.5
Mode of Operation	Non-Maintained, Recessed Mount
Lamp	6 Volts 10W Halogen
Rated Duration	Standard 2 Hours
Mains Supply	220-240 Volts
Mains Frequency	50-60Hz
Power Consumption	< 5.0 (With battery charged)
Battery	6V / 4.5AH High Temperature Nickel Cadmium or SLA
Charger	Dual Rate
Charge Monitor	Red LED (Flashing during fast charge)
Lamp Monitor	Green LED
Test Facility	Push OFF test switch
Safety Features	Low battery voltage cut off to prevent over discharge
Recharge Duration	< 24 Hours
Fitting Construction	Electro galvanized steel. Epoxy powder coating for spinning and casing, zinc coated for charger unit.
Weight	Approximately 1.7Kg
Standards	IEC 598-22-2, SS263:Part 2, CP19
Approvals	PSB Type test, PSB PLS (Product Listing Scheme)

Rev 7.0, 31/08/07

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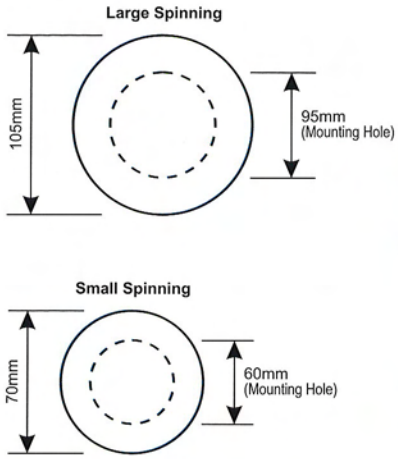
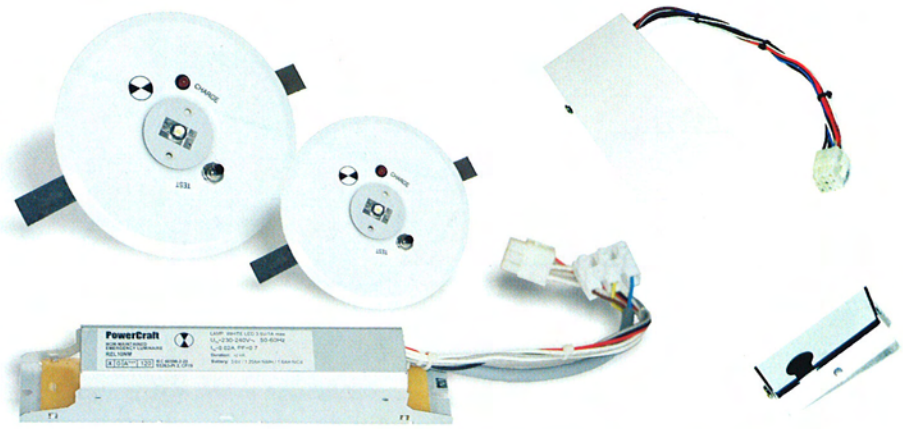
Self-Contained LED Emergency Luminaire





Features

- Non-obstructing design featuring a powerful white LED lamp.
- Recessed or surface mounting options.
- Low battery voltage **cut-off** with latch function, to eliminate battery over discharge.
- High temperature, 70°C Nickel Metal Hydrate or Nickel Cadmium battery pack.
- High quality quick fit connector enables separate installation of inverter and spinning assembly.
- Choice of two spinning sizes.
- Charge and Lamp LED indicators.

Model Number	REL10NM-LED
Classification	C_0/B12.5 and C_{90}/C12.5
Mode of Operation	Non-Maintained, Recessed Mount or Surface Mount (Auxiliary)
Lamp	3.6V / 1A White LED
Rated Duration	Standard 2 Hours, (Others on request)
Mains Supply	220-240 Volts
Mains Frequency	50-60Hz
Power Consumption	< 3.0 (With battery charged)
Battery	3.6V / 1.25AH High Temperature NiMH or 3.6V / 1.6AH High Temperature NiCd
Charger	Variable Rate
Charge Monitor	Red LED
Test Facility	Push OFF Test Switch
Safety Features	Low Battery Voltage Cut Off to Prevent Over Discharge
Recharge Duration	< 24 Hours
Fitting Construction	Electro Galvanized Steel. Epoxy Powder Coating For Spinning and Casing, Zinc Coated For Charger Unit.
Weight	Approximately 1.0Kg
Standards	IEC 598-22-2, SS263:Part 2, CP19
Approvals	PSB Type test, PSB PLS (Product Listing Scheme)

Rev 7.0, 31/08/07

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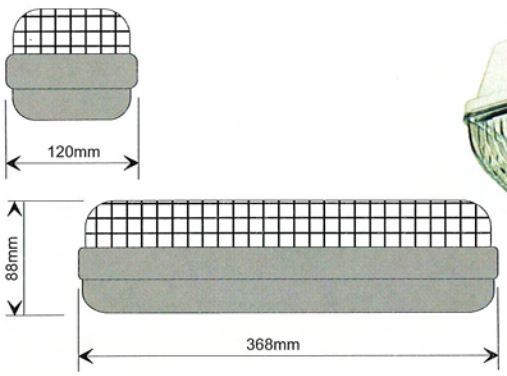
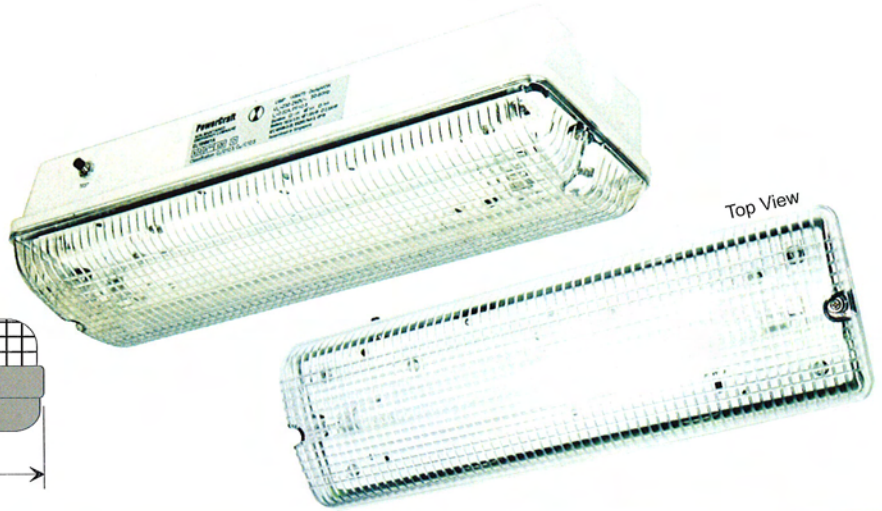
Self-Contained Emergency Luminaire





Features

- Weather proof design suitable for indoor and outdoor applications.
- Fire Retardant (UL94V0) 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.
- Certified by PSB, PLS listed.
- High temperature, 70°C Nickel Cadmium battery pack.
- Charge LED indicator and test button switch.

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PSB Corporation
PSB TEST

Model Number	EL18NM/1A	EL28NM/1A
Classification	C_0/D12.5 and C_{90}/C12.5	C_0/E12.5 and C_{90}/B12.5
Mode of Operation	Non-Maintained	
Lamp	1 x 8W/T5 Fluorescent lamp	2 x 8W/T5 Fluorescent lamp
Rated Duration	2 hours (Or 3 hours on request)	
Mains Supply	220-240 Volts	
Mains Frequency	50-60Hz	
Power Consumption	< 4.0W (With battery charged)	
Battery	High Temperature Nickel Cadmium	
Charger	Variable Rate, Short circuit protected	
Charge Monitor	Red LED	
Degree of protection (Against dust and moisture)	IP54	
Test Facility	Push OFF test switch	
Safety Features	Low battery voltage cut off to prevent over discharge	
Recharge Duration	< 24 Hours	
Fitting Construction	Moulded Fire retardant (UL94V0) housing and Diffuser.	
Weight	Approximately 1.0Kg	
Standards	IEC 598-22-2, SS263:Part 2, CP19	
Approvals	PSB Type test, PSB PLS (Product Listing Scheme)	
Dimensions	368mm (W) x 120mm (H) x 88mm (D)	

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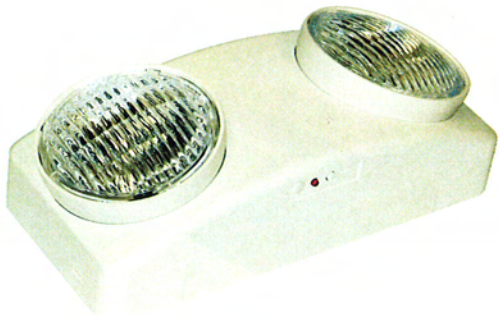
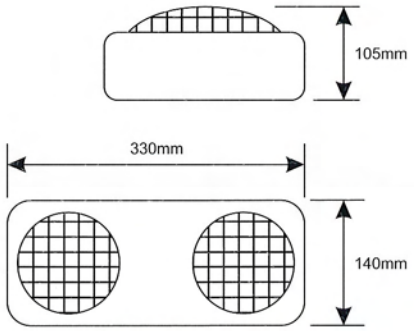
Self-Contained Emergency Luminaire





Features

- Fire Retardant (UL94V0) 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
- Certified by PSB, PLS listed.
- Charge LED indicator and test button switch.

Model Number	TED10NM	TED5NM
Mode of Operation	Non-Maintained	
Lamp	2 x 3.6V / 1A Power LED module	2 x 5.4W lamp (Or 2 x 8W on request)
Rated Duration	> 2 Hours	> 1 Hour
Mains Supply	220-240 Volts	
Mains Frequency	50-60Hz	
Power Consumption	< 4.0W (With battery charged)	
Battery	High Temp NiCd	Sealed Lead Acid
Charger	Variable Rate	
Charge Monitor	Red LED	
Test Facility	Push button micro switch	
Safety Features	Low battery voltage cut off to prevent over discharge	
Recharge Duration	< 24 Hours	
Fitting Construction	Moulded Fire retardant (UL94V0) housing and Diffuser.	
Weight	Approximately 1.5Kg	Approximately 2.2Kg
Standards	IEC 598-22-2, SS263:Part 2, CP19	
Approvals	PSB Type test, PSB PLS (Product Listing Scheme)	
Dimensions	330mm (W) x 140mm (H) x 105mm (D)	

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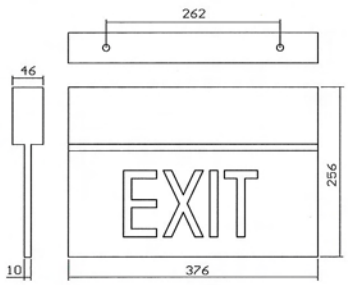
Self-Contained LED Emergency EXIT Luminaire





Features

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds IEC 598-2-22 and CP19 brightness requirements.
- Extra low power consumption, results in **149kWh** energy savings per year .
- High Quality, Long Life LED lamps.
- 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.
- High temperature, 70°C Nickel Cadmium battery pack and 105°C electronic components.
- Charge indicator and Test micro switch.

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PSB Corporation
PSB TEST

Model Number	EX-LED-M
Mode of Operation	Maintained, (Non-maintained option available)
Lamp	Long life ultra bright white colour 5mm LED module
Lamp Power	1W
Rated Duration	3 Hours
Mains Supply	220-240 Volts
Mains Frequency	50-60Hz
Power Consumption	4.0W, (Total standby power inclusive of LED converter)
Battery	High Temperature Nickel Cadmium
Charger	Variable rate
Charge Monitor	Red LED
Test Facility	Push OFF test switch
Mounting	Surface mount (Recessed mount option available)
Safety Features	Low battery voltage cut off to prevent over discharge
Recharge Duration	< 24 Hours
Diffuser	Acrylic board, 10mm thickness, (Fire retardant)
Fitting Construction	Electro galvanized steel. Epoxy powder coating for casing and gear tray, zinc coated for charger unit.
Weight	Approximately 2.1Kg
Dimensions	256mm (H) x 376mm (W) x 46mm (D)
Standards / Compliance	IEC 598-22-2, SS263:Part 2, CP19, SS 364
Approvals	PSB Type test, PSB PLS (Product Listing Scheme)

Ordering Information

Legend	Single Sided (Maintained)	Double Sided (Maintained)
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

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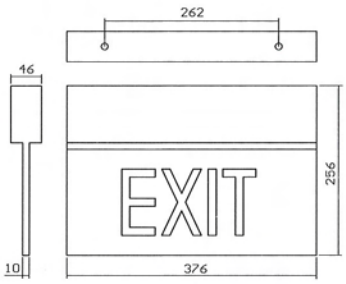
Self-Contained CCFL Emergency EXIT Luminaire





Features

- Low power consumption CCFL meeting ISO safety colour requirements.
- Exceeds IEC 598-2-22 and CP19 brightness requirements.
- Low power consumption, **122kWh** energy savings per year.
- 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.
- High temperature, 70°C Nickel Cadmium battery pack and 105°C electronic components.
- Charge indicator and Test micro switch.

TÜV SÜD
PSB Corporation
PSB TEST

Model Number	EX-CCFL-M
Mode of Operation	Maintained, (Non-maintained option available)
Lamp	Long life Cold Cathode Fluorescent Lamp
Rated Lamp	4W
Rated Duration	2 Hours
Mains Supply	220-240 Volts
Mains Frequency	50-60Hz
Power Consumption	7.0W, (Total standby power inclusive of CCFL converter)
Battery	High Temperature Nickel Cadmium
Charger	Variable rate
Charge Monitor	Red LED
Test Facility	Push OFF test switch
Mounting	Surface mount (Recessed mount option available)
Safety Features	Low battery voltage cut off to prevent over discharge
Recharge Duration	< 24 Hours
Diffuser	Acrylic board, 10mm thickness, (Fire retardant)
Fitting Construction	Electro galvanized steel. Epoxy powder coating for casing and gear tray, zinc coated for charger unit.
Weight	Approximately 2.1Kg
Dimensions	256mm (H) x 376mm (W) x 46mm (D)
Standards / Compliance	IEC 598-22-2, SS263:Part 2, CP19
Approvals	PSB Type test, PSB PLS (Product Listing Scheme)

Ordering Information

Legend	Single Sided (Maintained)	Double Sided (Maintained)
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

Rev 7.0, 31/08/07

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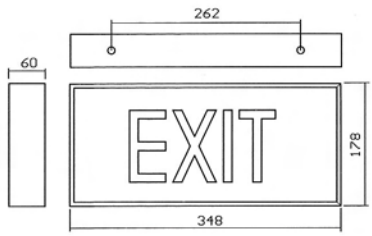
Self-Contained CCFL BOX Emergency EXIT Luminaire





Features

- Low power consumption CCFL meeting ISO safety colour requirements.
- Exceeds IEC 598-2-22 and CP19 brightness requirements.
- Low power consumption, **122kWh** energy savings per year.
- 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.
- High temperature, 70°C Nickel Cadmium battery pack and 105°C electronic components.
- Charge indicator and Test micro switch.

TÜV SÜD
PSB Corporation
PSB TEST

Model Number	EXB-CCFL-M
Mode of Operation	Maintained, (Non-maintained option available)
Lamp	Long life Cold Cathode Fluorescent Lamp
Rated Lamp	4W
Rated Duration	2 Hours
Mains Supply	220-240 Volts
Mains Frequency	50-60Hz
Power Consumption	7.0W, (Total standby power inclusive of CCFL converter)
Battery	High Temperature Nickel Cadmium
Charger	Variable rate
Charge Monitor	Red LED
Test Facility	Push OFF test switch
Mounting	Surface mount (Recessed mount option available)
Safety Features	Low battery voltage cut off to prevent over discharge
Recharge Duration	< 24 Hours
Diffuser	Acrylic board, 10mm thickness, (Fire retardant)
Fitting Construction	Electro galvanized steel. Epoxy powder coating for casing and gear tray, zinc coated for charger unit.
Weight	Approximately 1.5Kg
Dimensions	178mm (H) x 348mm (W) x 60mm (D)
Standards / Compliance	IEC 598-22-2, SS263:Part 2, CP19

Ordering Information

Legend	Single Sided (Maintained)	Single Sided (Non-Maintained)
EXIT	EXB-CCFL-M-S	EXB-CCFL-NM-S
EXIT ▸	EXB-CCFL-M-SR	EXB-CCFL-NM-SR
◂ EXIT	EXB-CCFL-M-SL	EXB-CCFL-NM-SL

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Note: Technical specifications subject to change without prior notice.