



# SELF-CONTAINED WHITE LED EMERGENCY EXIT LIGHT

... is designed to be slim and lightweight, low power consumption, low EMI and specially equipped with a customised proprietary Hybrid IC and super bright white LED and longer life-span. Easy and fast installation.

Suitable for Factories, Schools, Sports Stadiums, Banks, Club Houses, Hotels, Computer Rooms, Offices, Public Halls, Hospitals, Apartments, Warehouses, Carparks, etc.

## TECHNICAL CHARACTERISTICS

INPUT VOLTAGE	: 230Vac 50/60Hz ± 10% A: 0.34 PF: 0.77
BATTERY	: 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others
LAMP USED	: 1.5W SMT NICHIA White LED or T5 white LED tube
RATED PERIOD	: > 2 hrs, 3 hrs or others
MODE	: Maintained
OPERATION TEMPERATURE	: ta 40° C
POWER CONSUMPTION	: 4.6W
CHARGE MONITOR	: Super bright Green LED 5mm Ø
RECHARGE PERIOD	: 16 ~ 24 hrs
EMERGENCY LUMINANCE	: > 8 cd/m2
ELECTROMAGNETIC FIELD	: 17m gauss @ 0.1m
CHARGER	: Hybrid controlled charger
PROTECTION	: Low volt cut-off to prevent battery over discharge Incoming AC fuse and Battery DC fuse Tropical climate protection coating on hybrid control circuit
CONSTRUCTION	: Electrode galvanised sheet steel with epoxy powder coating 20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser
DIMENSION	: 358mm(L) x 60(W) x 278mm(H)
WEIGHT	: 2.80kg (Net) / 3.00kg (Gross)
PACKING	: One unit per carton
CARTON / DIMENSION	: Double wall corrugated / 415mm(L) x 70mm(W) x 295mm(H)
COMPLIANCE	: SS563-1:2010, SS563-2:2010/A1:2013. SSIEC 60598-2-22: 2016
WARRANTY	: 1 Year
ACCESSORY	: Wall mounting bracket (for single face)

## ORDERING INFORMATION

LEGEND	SINGLE FACE MODEL	FRONT LEGEND	BACK LEGEND	DOUBLE FACE MODEL
EXIT	SLED-X1-001	EXIT	EXIT	SLED-X1-002
◀EXIT	SLED-X1-011	◀EXIT	EXIT ▶	SLED-X1-012
EXIT ▶	SLED-X1-021	EXIT ▶	◀EXIT	SLED-X1-022
◀EXIT ▶	SLED-X1-031	◀EXIT ▶	◀EXIT ▶	SLED-X1-032



## SLED-X1

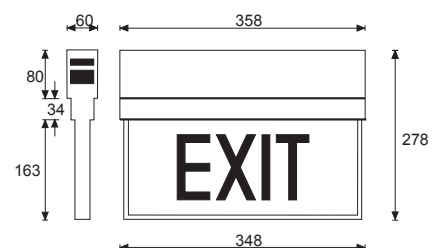


IP 20



**HYBRID IC CONTROLLED  
SELF-CONTAINED EMERGENCY LIGHTING  
SUPER BRIGHT SMT NICHIA WHITE LED  
LUMINAIRE**

## DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



Certificate No. AJAM7565

PSB Singapore

ISO9001:2015-SAM-CAT-2018-001

# SELF-CONTAINED EMERGENCY EXIT LIGHT



... is designed to be slim and lightweight and specially equipped with customised proprietary Hybrid IC and a very high efficiency current feed push pull sine wave inverter, to fully utilise the battery power and to prevent the frequent blackening of the tube. Easy and fast installation.

Suitable for Factories, Schools, Sports Stadiums, Banks, Club Houses, Hotels, Computer Rooms, Offices, Public Halls, Hospitals, Apartments, Warehouses, Car parks, etc.

## TECHNICAL CHARACTERISTICS

INPUT VOLTAGE	: 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others
BATTERY	: 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others
LAMP USED	: Fluorescent tube 1 x 8W daylight 30cm
RATED PERIOD	: > 2 hrs, 3 hrs or others
MODE	: Maintained
OPERATION TEMPERATURE	: ta 40° C
POWER CONSUMPTION	: 16.2W
CHARGE MONITOR	: Super bright green LED 5mm Ø
RECHARGE PERIOD	: 16 ~ 24 hrs
EMERGENCY LUMINANCE	: > 8 cd/m <sup>2</sup>
ELECTROMAGNETIC FIELD	: 12.2m gauss @ 0.1m
CHARGER	: Hybrid controlled charger
PROTECTION	: Low volt cut-off to prevent battery over discharge Incoming AC fuse and Battery DC fuse Tropical climate protection coating on hybrid control circuit
CONSTRUCTION	: Electrode galvanised sheet steel with epoxy powder coating 20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser
DIMENSION	: 420mm(L) x 75mm(W) x 298mm(H)
WEIGHT	: 3.30kg (Net) / 3.40kg (Gross)
PACKING	: One unit per carton
CARTON / DIMENSION	: Double wall corrugated / 450mm(L) x 90mm(W) x 310mm(H)
COMPLIANCE	: SS563-1: 2010, SS563-2-2010/A1: 2013
WARRANTY	: 1 Year
ACCESSORY	: Wall mounting bracket (for single face)

## ORDERING INFORMATION

LEGEND	SINGLE FACE MODEL	FRONT LEGEND	BACK LEGEND	DOUBLE FACE MODEL
EXIT	SLM 18-001	EXIT	EXIT	SLM 18-002
◀EXIT	SLM 18-011	◀EXIT	EXIT ▶	SLM 18-012
EXIT ▶	SLM 18-021	EXIT ▶	◀EXIT	SLM 18-022
◀EXIT ▶	SLM 18-031	◀EXIT ▶	◀EXIT ▶	SLM 18-032



## SLM 18



IP 20

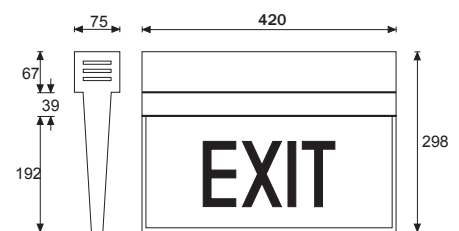
HYBRID  
~~~~~

Hybrid Charge



**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE**

## DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



# SELF-CONTAINED EMERGENCY EXIT LIGHT



... is designed to be slim and lightweight, low EMI and specially equipped with a customised proprietary Hybrid IC and a very high efficiency current feed push-pull sine wave inverter, to fully utilise the battery power and to prevent the frequent blackening of the tube. Easy and fast installation.

Suitable for Factories, Schools, Sports Stadiums, Banks, Club Houses, Hotels, Computer Rooms, Offices, Public Halls, Hospitals, Apartments, Warehouses, Carparks, etc.

## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : Fluorescent tube 1 x 8W daylight 30cm                                                                                                                       |
| RATED PERIOD          | : > 2 hrs, 3 hrs or others                                                                                                                                    |
| MODE                  | : Maintained                                                                                                                                                  |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : 16.2W                                                                                                                                                       |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : > 8 cd/m <sup>2</sup>                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 9.5m gauss @ 0.1m                                                                                                                                           |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser                                         |
| DIMENSION             | : 395mm(L) x 60mm(W) x 267mm(H)                                                                                                                               |
| WEIGHT                | : 2.68kg (Net) / 2.78kg (Gross)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 415mm(L) x 70mm(W) x 295mm(H)                                                                                                      |
| COMPLIANCE            | : SS563-1: 2010, SS563-2-2010/A1: 2013                                                                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |
| ACCESSORY             | : Wall mounting bracket (for single face)                                                                                                                     |



## SLM 18T



IP 20

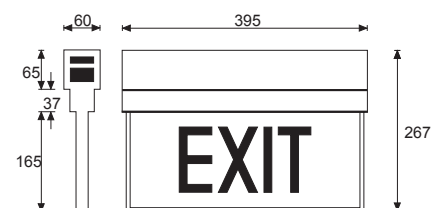


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE**

## ORDERING INFORMATION

| LEGEND  | SINGLE FACE MODEL | FRONT LEGEND | BACK LEGEND | DOUBLE FACE MODEL |
|---------|-------------------|--------------|-------------|-------------------|
| EXIT    | SLM 18T-001       | EXIT         | EXIT        | SLM 18T-002       |
| ◀EXIT   | SLM 18T-011       | ◀EXIT        | EXIT ▶      | SLM 18T-012       |
| EXIT ▶  | SLM 18T-021       | EXIT ▶       | ◀EXIT       | SLM 18T-022       |
| ◀EXIT ▶ | SLM 18T-031       | ◀EXIT ▶      | ◀EXIT ▶     | SLM 18T-032       |

## DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-003



# SELF-CONTAINED WHITE LED EMERGENCY EXIT LIGHT

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Suitable for shopping Centre, Malls, Restaurants, Computer Rooms, Offices, Banks, Cinemas, Public Halls, Auditoriums, Hotels, Shops, Supermarkets, Hospitals, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% A: 0.34 PF: 0.77                                                                                                                       |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : 1.8W SMT NICHIA White LED or T5 White LED tube > 50,000 hrs                                                                                                 |
| RATED PERIOD          | : > 2 hrs, 3 hrs or others                                                                                                                                    |
| MODE                  | : Maintained                                                                                                                                                  |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : 4.6W                                                                                                                                                        |
| CHARGE MONITOR        | : Super bright Green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : > 8 cd/m <sup>2</sup>                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 17m gauss @ 0.1m                                                                                                                                            |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser                                         |
| DIMENSION             | : 475mm(L) x 92mm(W) x 270mm(H)                                                                                                                               |
| WEIGHT                | : 2.70kg(Net) / 2.80kg(Gross)                                                                                                                                 |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 495mm(L) x 105mm(W) x 310mm(H)                                                                                                     |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013. SSIEC 60598: Part 1: 2016                                                                                               |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## SLR 158/308

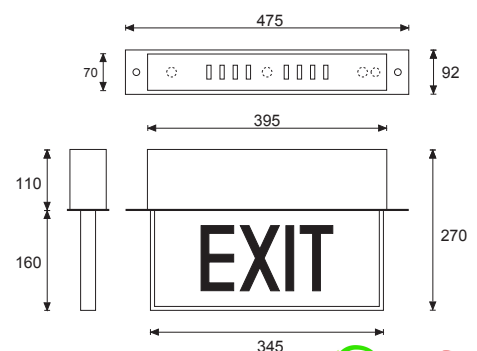


**HYBRID IC CONTROLLED  
SELF-CONTAINED EMERGENCY LIGHTING  
SUPER BRIGHT SMT NICHIA WHITE LED  
LUMINAIRE (RECESSED MOUNTING)**

## ORDERING INFORMATION

| LEGEND  | SINGLE FACE MODEL | FRONT LEGEND | BACK LEGEND | DOUBLE FACE MODEL |
|---------|-------------------|--------------|-------------|-------------------|
| EXIT    | SLR 158-001       | EXIT         | EXIT        | SLR 308-002       |
| ◀EXIT   | SLR 158-011       | ◀EXIT        | EXIT ▶      | SLR 308-012       |
| EXIT ▶  | SLR 158-021       | EXIT ▶       | ◀EXIT       | SLR 308-022       |
| ◀EXIT ▶ | SLR 158-031       | ◀EXIT ▶      | ◀EXIT ▶     | SLR 308-032       |

## DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-004



# SELF-CONTAINED EMERGENCY EXIT LIGHT



... is designed to be slim and lightweight, low EMI and specially equipped with a customised proprietary Hybrid IC and a very high efficiency current feed push-pull sine wave inverter, to fully utilise the battery power and to prevent the frequent blackening of the tube.

Suitable for shopping Centre, Malls, Restaurants, Computer Rooms, Offices, Banks, Cinemas, Public Halls, Auditoriums, Hotels, Shops, Supermarkets, Hospitals, etc.



## SLR 18

### TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : Fluorescent tube 1 x 8W daylight 30cm                                                                                                                       |
| RATED PERIOD          | : > 1 hr, 2 hrs, 3 hrs or others                                                                                                                              |
| MODE                  | : Maintained                                                                                                                                                  |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : 16.2W                                                                                                                                                       |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : > 8 cd/m <sup>2</sup>                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 6m gause @ 0.1m                                                                                                                                             |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser                                         |
| DIMENSION             | : 475mm(L) x 92mm(W) x 285mm(H)                                                                                                                               |
| WEIGHT                | : 2.64kg(Net) / 2.74kg(Gross)                                                                                                                                 |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 495mm(L) x 105mm(W) x 310mm(H)                                                                                                     |
| COMPLIANCE            | : SS563-1: 2010, SS563-2-2010/A1: 2013                                                                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

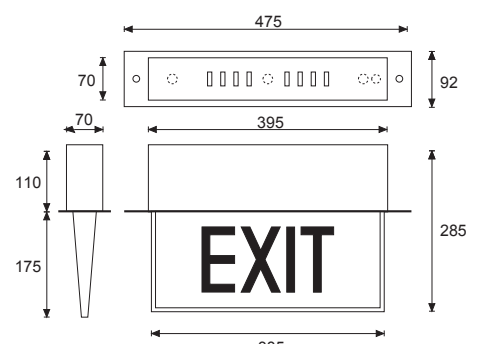


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE (RECESS MOUNTING)**

### ORDERING INFORMATION

| LEGEND  | SINGLE FACE MODEL | FRONT LEGEND | BACK LEGEND | DOUBLE FACE MODEL |
|---------|-------------------|--------------|-------------|-------------------|
| EXIT    | SLR 18-001        | EXIT         | EXIT        | SLR 18-002        |
| ◀EXIT   | SLR 18-011        | ◀EXIT        | EXIT ▶      | SLR 18-012        |
| EXIT ▶  | SLR 18-021        | EXIT ▶       | ◀EXIT       | SLR 18-022        |
| ◀EXIT ▶ | SLR 18-031        | ◀EXIT ▶      | ◀EXIT ▶     | SLR 18-032        |

### DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



Certificate No. AJA047595

PSB Singapore

ISO9001:2015-SAM-CAT-2018-005



# SELF-CONTAINED EMERGENCY EXIT LIGHT

... is designed to be slim and lightweight, low EMI and specially equipped with a customised proprietary Hybrid IC and a very high efficiency current feed push-pull sine wave inverter, to fully utilise the battery power and to prevent the frequent blackening of the tube.

Suitable for shopping Centre, Malls, Restaurants, Computer Rooms, Offices, Banks, Cinemas, Public Halls, Auditoriums, Hotels, Shops, Supermarkets, Hospitals, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : Fluorescent tube 1 x 8W daylight 30cm                                                                                                                       |
| RATED PERIOD          | : > 1 hr, 2 hrs, 3 hrs or others                                                                                                                              |
| MODE                  | : Maintained                                                                                                                                                  |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : 16.2W                                                                                                                                                       |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : > 8 cd/m <sup>2</sup>                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 6m gause @ 0.1m                                                                                                                                             |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser                                         |
| DIMENSION             | : 468mm(L) x 74mm(W) x 266mm(H)                                                                                                                               |
| WEIGHT                | : 2.70kg(Net) / 2.80kg(Gross)                                                                                                                                 |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 475mm(L) x 80mm(W) x 280mm(H)                                                                                                      |
| COMPLIANCE            | : SS563-1: 2010, SS563-2-2010/A1: 2013                                                                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## SLR 18T



IP 20

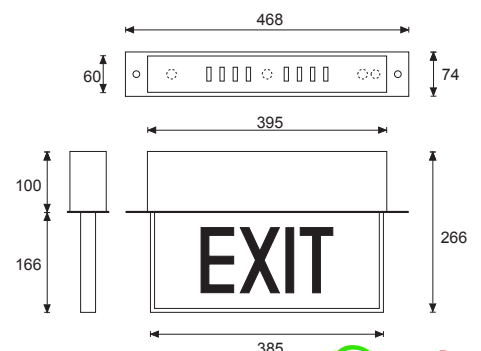


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE (RECESS MOUNTING)**

## ORDERING INFORMATION

| LEGEND  | SINGLE FACE MODEL | FRONT LEGEND | BACK LEGEND | DOUBLE FACE MODEL |
|---------|-------------------|--------------|-------------|-------------------|
| EXIT    | SLR 18T-001       | EXIT         | EXIT        | SLR 18T-002       |
| ◀EXIT   | SLR 18T-011       | ◀EXIT        | EXIT ▶      | SLR 18T-012       |
| EXIT ▶  | SLR 18T-021       | EXIT ▶       | ◀EXIT       | SLR 18T-022       |
| ◀EXIT ▶ | SLR 18T-031       | ◀EXIT ▶      | ◀EXIT ▶     | SLR 18T-032       |

## DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-006

# SELF-CONTAINED EMERGENCY EXIT LIGHT



... is designed and specially equipped with a customised proprietary Hybrid IC and a very high efficiency current feed push-pull sine wave inverter, to fully utilise the battery power and to prevent the frequent blackening of the tube. Compact and lightweight. Easy and fast installation with the thumb-press quick lock fastening system cuts down installation/maintenance time drastically.

Suitable for Factories, Schools, Sports Stadiums, Banks, Offices, Public Halls, Hospitals, Apartments, Warehouses, Carparks, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : Fluorescent tube 2 x 8W daylight 30cm                                                                                                                       |
| RATED PERIOD          | : > 1 hr, 2 hrs, 3 hrs or others                                                                                                                              |
| MODE                  | : Sustained/Combined                                                                                                                                          |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : 14.5W                                                                                                                                                       |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : > 8 cd/m <sup>2</sup>                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 17m gauss @ 0.1m                                                                                                                                            |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser                                         |
| DIMENSION             | : 370mm(L) x 100mm(W) x 190mm(H)                                                                                                                              |
| WEIGHT                | : 2.44kg (Net) / 2.54kg (Gross)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 390mm(L) x 110mm(W) x 205mm(H)                                                                                                     |
| COMPLIANCE            | : SS563-1: 2010, SS563-2-2010/A1: 2013                                                                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## ELS 28

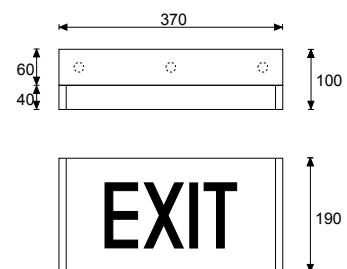


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE**

## ORDERING INFORMATION

| LEGEND  | MODEL     |
|---------|-----------|
| EXIT    | ELS 28-00 |
| ◀EXIT   | ELS 28-01 |
| EXIT ▶  | ELS 28-02 |
| ◀EXIT ▶ | ELS 28-03 |

## DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

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ISO9001:2015-SAM-CAT-2018-007



# SELF-CONTAINED EMERGENCY EXIT LIGHT

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Suitable for Factories, Schools, Sports Stadiums, Banks, Offices, Public Halls, Hospitals, Apartments, Warehouses, Carparks, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : Fluorescent tube 2 x 8W daylight 30cm                                                                                                                       |
| RATED PERIOD          | : > 1 hr, 2 hrs, 3 hrs or others                                                                                                                              |
| MODE                  | : Sustained/Combined                                                                                                                                          |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : < 14.5W                                                                                                                                                     |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : > 8 cd/m <sup>2</sup>                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 12.6m gause@0.1m                                                                                                                                            |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser                                         |
| DIMENSION             | : 370mm(L) x 80mm(W) x 165mm(H)                                                                                                                               |
| WEIGHT                | : 2.17kg (Net) / 2.27kg (Gross)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 390mm(L) x 100mm(W) x 180mm(H)                                                                                                     |
| COMPLIANCE            | : SS563-1: 2010, SS563-2-2010/A1: 2013                                                                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## ELS 28S

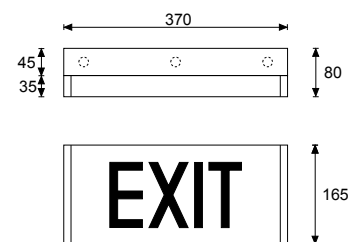


HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE

## ORDERING INFORMATION

| LEGEND  | MODEL      |
|---------|------------|
| EXIT    | ELS 28S-00 |
| ◀EXIT   | ELS 28S-01 |
| EXIT ▶  | ELS 28S-02 |
| ◀EXIT ▶ | ELS 28S-03 |

## DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.





# SELF-CONTAINED WHITE LED EMERGENCY EXIT LIGHT



... is designed and specially equipped with a customised proprietary Hybrid IC. Compact and lightweight. Easy and fast installation with the thumb-press quick lock fastening system cuts down installation/maintenance time drastically.

Suitable for Factories, Schools, Sports Stadiums, Banks, Offices, Public Halls, Hospitals, Apartments, Warehouses, Carparks, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 240Vac 50/60Hz ± 10%, 115Vac 50/60Hz ± 10% or others                                                                                                        |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : T5 White LED                                                                                                                                                |
| RATED PERIOD          | : > 2 hrs, 3 hrs or others                                                                                                                                    |
| MODE                  | : Maintained                                                                                                                                                  |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : 4.6W                                                                                                                                                        |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : > 8 cd/m <sup>2</sup>                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 17m gauss @ 0.1m                                                                                                                                            |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser                                         |
| DIMENSION             | : 370mm(L) x 80mm(W) x 165mm(H)                                                                                                                               |
| WEIGHT                | : 2.60kg (Net) / 2.70kg (Gross)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 390mm(L) x 100mm(W) x 180mm(H)                                                                                                     |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013. SSIEC 60598: PART 1: 2016.                                                                                              |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## ELS 115M-LED-T5

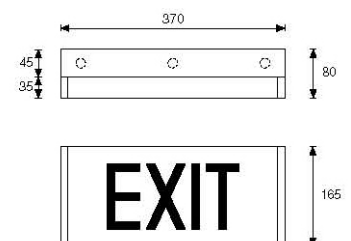


**HYBRID IC CONTROLLED  
SELF-CONTAINED EMERGENCY LIGHTING  
SUPER BRIGHT T5 WHITE LED LUMINAIRE**

## ORDERING INFORMATION

| LEGEND  | MODEL              |
|---------|--------------------|
| EXIT    | ELS 115M-LED-T5-00 |
| ◀EXIT   | ELS 115M-LED-T5-01 |
| EXIT ▶  | ELS 115M-LED-T5-02 |
| ◀EXIT ▶ | ELS 115M-LED-T5-03 |

## DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-009

# SELF-CONTAINED EMERGENCY EXIT LIGHT



... is designed ruggedly to withstand to the exposure of the weather. A weatherproof version of the SAMCOM Model ELS 28. Compact and lightweight. Easy and fast installation with the thumb-press quick lock fastening system cuts down installation/maintenance time drastically.

Suitable for general outdoor and indoor application.



## ELW 18M / 28S

### TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : Fluorescent tube 1 x 8W or 2 x 8W daylight 30cm                                                                                                             |
| RATED PERIOD          | : > 1 hr, 2 hrs, 3 hrs or others                                                                                                                              |
| MODE                  | : Maintained or Combined Maintained                                                                                                                           |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : < 16.2W                                                                                                                                                     |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : > 8 cd/m <sup>2</sup>                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 11.8m gause@0.1m                                                                                                                                            |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Moulded Fire Retardant ABS housing with 20mm Ø K/O hole and PC diffuser                                                                                     |
| DIMENSION             | : 370mm(L) x 95mm(W) x 185mm(H)                                                                                                                               |
| WEIGHT                | : 1.53kg (Net) / 1.63kg (Gross)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 400mm(L) x 110mm(W) x 210mm(H)                                                                                                     |
| COMPLIANCE            | : SS263-2: 1998/A2: 2008, SS563:1: 2010, SS563-2-2010/A1: 2013                                                                                                |
| WARRANTY              | : 1 Year                                                                                                                                                      |

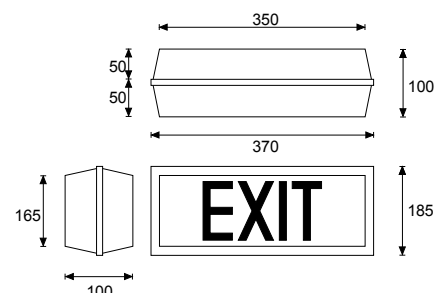


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE**

### ORDERING INFORMATION

| LEGEND  | MODEL      | MODEL      |
|---------|------------|------------|
| EXIT    | ELW 18M-00 | ELW 28S-00 |
| ◀EXIT   | ELW 18M-01 | ELW 28S-01 |
| EXIT ▶  | ELW 18M-02 | ELW 28S-02 |
| ◀EXIT ▶ | ELW 18M-03 | ELW 28S-03 |

### DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-010

# SELF-CONTAINED WHITE LED EMERGENCY EXIT LIGHT



... is designed to be lightweight, low power consumption, low EMI and specially equipped with a customised proprietary Hybrid IC and super bright white LED and longer life-span. Easy and fast installation.

Suitable for general outdoor & indoor application.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : 1 x 2W T5 White LED Tube or Super Bridge SMT White LED                                                                                                      |
| RATED PERIOD          | : 2 hrs, 3 hrs or others                                                                                                                                      |
| MODE                  | : Maintained                                                                                                                                                  |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : < 4.6 W                                                                                                                                                     |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : > 8 cd/m <sup>2</sup>                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 17m gauss @ 0.1m                                                                                                                                            |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Moulded Fire Retardant ABS housing with 20mm Ø K/O hole and Acrylic diffuser                                                                                |
| DIMENSION             | : 370mm(L) x 185mm(W) x 95mm(H)                                                                                                                               |
| WEIGHT                | : 1.50kg (Net) / 1.60kg (Gross)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 400mm(L) x 210mm(W) x 110mm(H)                                                                                                     |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013, SSIEC60598-2-22:2016<br>SSIEC50598: Part 1: 2016                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## ELW 115-LED-T5

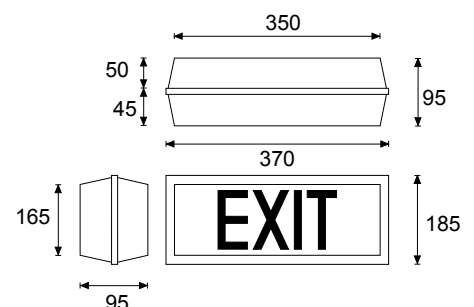


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY EXIT LIGHTING  
SUPER BRIGHT SMT NICHIA WHITE LED  
LUMINAIRE**

## ORDERING INFORMATION

| LEGEND | MODEL             |
|--------|-------------------|
| EXIT   | ELW 115-LED-T5-00 |
| ◀EXIT  | ELW 115-LED-T5-01 |
| EXIT▶  | ELW 115-LED-T5-02 |
|        | ELW 115-LED-T5-05 |

## DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-011



# SELF-CONTAINED EMERGENCY LIGHTING

... is designed an specially equipped with a customised proprietary Hybrid IC and a very high efficiency built-in-current feed push-pull sine wave inverter prevent frequent blackening of the tube. Compact and lightweight.

Suitable for Factories, Schools, Sports Stadiums, Offices, Public Halls, Apartments, Warehouses, Carpakrs, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% A: 0.02 PF: 0.6                                                                                                                        |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : Fluorescent tube 1 x 8W daylight 30cm                                                                                                                       |
| RATED PERIOD          | : >1 hr, 2 hrs, 3 hrs or others                                                                                                                               |
| MODE                  | : Non-maintained                                                                                                                                              |
| POWER CONSUMPTION     | : <1.7W                                                                                                                                                       |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| CHARGE MONITOR        | : Super bright Green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : 45 Lumen                                                                                                                                                    |
| ELECTROMAGNETIC FIELD | : 11.8m gause@0.1m                                                                                                                                            |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Moulded Fire Retardant ABS base PC diffuser                                                                                                                 |
| DIMENSION             | : 340mm(L) x 70mm(W) x 120mm(H)                                                                                                                               |
| WEIGHT                | : 1.40kg (Net) / 1.60kg (Gross)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 360mm(L) x 85mm(W) x 130mm(H)                                                                                                      |
| COMPLIANCE            | : SS263-2: 1998/A2: 2008, SS563-2-2010/A1: 2013                                                                                                               |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## EEP 18P

IP 20

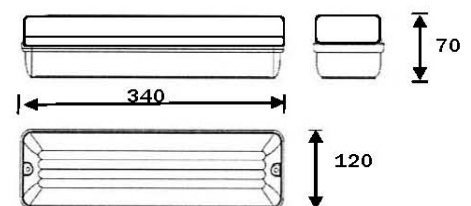


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE**

## ORDERING INFORMATION

| MODEL        | LAMP USED | RATED PERIOD |
|--------------|-----------|--------------|
| EEP 18P-NM-2 | 1 x 8W    | 2 hrs ± 10%  |
| EEP 18P-NM-3 | 1 x 8W    | 3 hrs ± 10%  |
| EEP 28P-NM-2 | 2 x 8W    | 2 hrs ± 10%  |
| EEP 28P-NM-3 | 2 x 8W    | 3 hrs ± 10%  |

## DIMENSION (mm)



Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.





# SELF-CONTAINED EMERGENCY LIGHTING



... is designed and specially equipped with a customised proprietary Hybrid IC and a very high efficiency current feed push-pull sine wave inverter, to fully utilise the battery power and to prevent the frequent blackening of the tube. Compact and lightweight. Easy and fast installation with the thumb-press quick lock fastening system cuts down installation/maintenance time drastically.

Suitable for Factories, Schools, Sports Stadiums, Banks, Offices, Public Halls, Hospitals, Apartments, Warehouses, Carparks, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : Fluorescent tube 1 x 8W, 2 x 8W daylight                                                                                                                    |
| RATED PERIOD          | : > 1 hr, 2 hrs, 3 hrs or others                                                                                                                              |
| MODE                  | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : < 1.7 W                                                                                                                                                     |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : 75 lm                                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 14.2m gause@0.1m                                                                                                                                            |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser                                         |
| DIMENSION             | : 370mm(L) x 80mm(W) x 165mm(H)                                                                                                                               |
| WEIGHT                | : 1.94kg (Net) / 2.04kg (Gross)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 390mm(L) x 100mm(W) x 185mm(H)                                                                                                     |
| COMPLIANCE            | : SS263-2: 1998/A2: 2008, SS563-2-2010/A1: 2013                                                                                                               |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## EEP 28

IP 20

HYBRID  
WWWWWWW

Hybrid Charge

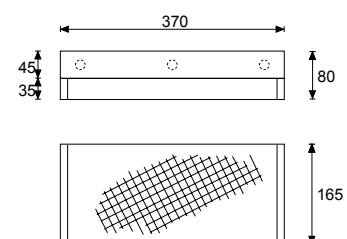


*HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING FLUORESCENT  
LUMINAIRE*

## ORDERING INFORMATION

| MODEL      | LAMP USED | RATED PERIOD |
|------------|-----------|--------------|
| EEP 18NM-2 | 1 x 8W    | 2 hrs ± 10%  |
| EEP 18NM-3 | 1 x 8W    | 3 hrs ± 10%  |
| EEP 28NM-2 | 2 x 8W    | 2 hrs ± 10%  |
| EEP 28NM-3 | 2 x 8W    | 3 hrs ± 10%  |

## DIMENSION (mm)





# SELF-CONTAINED LED EMERGENCY LIGHTING

... is designed an specially equipped with a customised proprietary Hybrid IC and super bright white LED and longer life-span. Easy and fast installation.

Suitable for Factories, Schools, Sports Stadiums, Offices, Public Halls, Apartments, Warehouses, Carpakrs, etc.

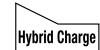


## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% A: 0.34 PF: 0.77                                                                                                                       |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : 1 x T5 White LED Tube                                                                                                                                       |
| RATED PERIOD          | : > 2 hrs, 4 hrs & others                                                                                                                                     |
| MODE                  | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER COMSUMPTION     | : < 2.2 W                                                                                                                                                     |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : 75 lm                                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 17m gause @ 0.1m                                                                                                                                            |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Moulded Fire Retardant ABS base PC diffuser                                                                                                                 |
| DIMENSION             | : 340mm(L) x 120mm(W) x 70mm(H)                                                                                                                               |
| WEIGHT                | : 1.40kg (Net) / 1.60kg (Gross)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 360m(L) x 130mm(W) x 85mm(H)                                                                                                       |
| COMPLIANCE            | : SS563-1: 2010, SS563-2- 2010/A1: 2013, SSIEC60598-2-22:2016, SSIEC 60598: Part 1:2016                                                                       |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## EEP 115P-NM-LED-T5

IP 20

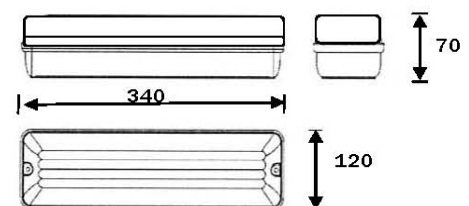


**HYBRID IC CONTROLLED  
SELF-CONTAINED EMERGENCY LIGHTING  
SUPER BRIGHT SMT WHITE LED LUMINAIRE**

## ORDERING INFORMATION

| MODEL             | LAMP USED     | RATED PERIOD |
|-------------------|---------------|--------------|
| EEP115P-NM-LED-T5 | 1xT5 LED Tube | 2 Hrs ± 10%  |
| EEP215P-NM-LED-T5 | 2xT5 LED Tube | 2 Hrs ± 10%  |

## DIMENSION (mm)





# SELF-CONTAINED WEATHERPROOF EMERGENCY LIGHTING

... is designed an specially equipped with a customised proprietary Hybrid IC and a very high efficiency built-in-current feed push-pull sine wave inverter prevent frequent blackening of the tube. Compact and lightweight.

Suitable for Factories, Schools, Sports Stadiums, Offices, Public Halls, Apartments, Warehouses, Carpakrs, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% A: 0.02 PF: 0.6                                                                                                                        |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : Fluorescent tube 1 x 8W or 2 x 8W daylight 30cm                                                                                                             |
| RATED PERIOD          | : >1 hr, 2 hrs, 3 hrs or others                                                                                                                               |
| MODE                  | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : <1.7W                                                                                                                                                       |
| CHARGE MONITOR        | : Super bright Green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : 73 lm                                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 11.8m gause@0.1m                                                                                                                                            |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Moulded Fire Retardant ABS base PC diffuser                                                                                                                 |
| DIMENSION             | : 340mm(L) x 70mm(W) x 120mm(H)                                                                                                                               |
| WEIGHT                | : 1.40kg (Net) / 1.60kg (Gross)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 360mm(L) x 185m(W) x 130mm(H)                                                                                                      |
| COMPLIANCE            | : SS263: Part 2: 1998/A2: 2008, SS563-2: 2010/A1: 2013                                                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## EEW 18P

IP 65

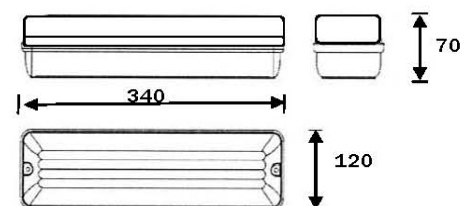


*HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE*

## ORDERING INFORMATION

| MODEL        | LAMP USED | RATED PERIOD |
|--------------|-----------|--------------|
| EEW 18P-NM-2 | 1 x 8W    | 2 hrs ± 10%  |
| EEW 18P-NM-3 | 1 x 8W    | 3 hrs ± 10%  |
| EEW 28P-NM-2 | 2 x 8W    | 2 hrs ± 10%  |
| EEW 28P-NM-3 | 2 x 8W    | 3 hrs ± 10%  |

## DIMENSION (mm)





# SELF-CONTAINED WHITE LED EMERGENCY LIGHTING

... is designed an specially equipped with a customised proprietary Hybrid IC and super bright white LED and longer life-span. Easy and fast installation.

Suitable for Factories, Schools, Sports Stadiums, Offices, Public Halls, Apartments, Warehouses, Carpakrs, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% A: 0.34 PF: 0.77                                                                                                                       |
| BATTERY               | : 2.4V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                             |
| LAMP USED             | : 1 x T5 White LED Tube                                                                                                                                       |
| RATED PERIOD          | : > 2 hrs, 4 hrs & others                                                                                                                                     |
| MODE                  | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER COMSUMPTION     | : < 2.2 W                                                                                                                                                     |
| CHARGE MONITOR        | : Super bright Green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : 75 Lumen                                                                                                                                                    |
| ELECTROMAGNETIC FIELD | : 17m gauss @ 0.1m                                                                                                                                            |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Moulded Fire Retardant ABS base PC diffuser                                                                                                                 |
| DIMENSION             | : 340mm(L) x 120mm(W) x 70mm(H)                                                                                                                               |
| WEIGHT                | : 1.40kg (Net) / 1.60kg (Gross)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 360mm(L) x 130mm(W) x 85mm(H)                                                                                                      |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013, SSIEC60598-2-22:2016<br>SSIEC60598: Part 1: 2016                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## EEW 115P-LED-T5

IP 65

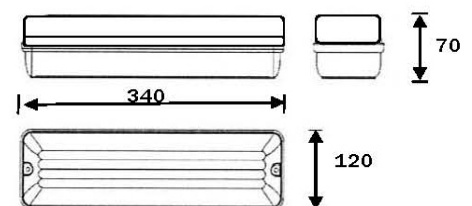


**HYBRID IC CONTROLLED  
SELF-CONTAINED EMERGENCY LIGHTING  
SUPER BRIGHT SMT WHITE LED LUMINAIRE**

## ORDERING INFORMATION

| MODEL              | LAMP USED           | RATED PERIOD |
|--------------------|---------------------|--------------|
| EEW 115NM-P-LED-T5 | 1xT5 White LED Tube | 3Hrs ± 10%   |
| EEW 215NM-P-LED-T5 | 2xT5 White LED Tube | 2Hrs ± 10%   |

## DIMENSION (mm)







# SELF-CONTAINED WHITE LED EMERGENCY DOWN LIGHT

... is designed with low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in operation. Small and aesthetically in design. Easy installation. Snap in and flush mount firmly onto ceiling/panel. It stays inconspicuously and maintains the original interior decoration of the premises.

Suitable for Banks, Computer Rooms, Offices, Cinemas, Hotels, Shops, Supermarkets, etc.



## EHL 101-LED

### TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                                               |
| BATTERY               | : High temp rated Nickel Cadmium cells 2.4V 1.6Ah or others                                                                                                                            |
| LAMP USED             | : 1 W SMT NICHIA White LED                                                                                                                                                             |
| RATED PERIOD          | : > 4 hrs or others                                                                                                                                                                    |
| MODE                  | : Non-maintained                                                                                                                                                                       |
| OPERATION TEMPERATURE | : ta 25° C                                                                                                                                                                             |
| POWER CONSUMPTION     | : 1.3W                                                                                                                                                                                 |
| CHARGE/FAULT MONITOR  | : Super bright Green LED 5mm Ø                                                                                                                                                         |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                                          |
| EMERGENCY LUMINANCE   | : 28 lm                                                                                                                                                                                |
| ELECTROMAGNETIC FIELD | : 6.9m gauss@0.1m                                                                                                                                                                      |
| CHARGER               | : Hybrid controlled charger                                                                                                                                                            |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse, Circuit Protection Fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Moulded Fire Retardant PC + UV housing.                                                                                                                                              |
| DIMENSION             | : 97mm(L) x 97mm(W) x 102mm(H)                                                                                                                                                         |
| PACKING               | : One unit per carton                                                                                                                                                                  |
| CARTON / DIMENSION    | : Double wall corrugated / 110mm(L) x 110mm(W) x 120mm(H)                                                                                                                              |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013. SSIEC60598-2-22:2016<br>SSIEC60598: Part 1: 2016                                                                                                 |
| WARRANTY              | : 1 Year                                                                                                                                                                               |

IP 20

HYBRID  
www.samcom.com

Hybrid Charge

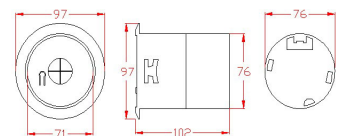


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LED DOWN LIGHT  
SUPER BRIGHT 1W SMT NICHIA WHITE  
LED LAMP LOW POWER CONSUMPTION**

### ORDERING INFORMATION

| MODEL       | LAMP USED         | BATTERY CAPACITY | DURATION    | GROSS WEIGHT |
|-------------|-------------------|------------------|-------------|--------------|
| EHL 101-LED | 1 W SMT White LED | 1.6 Ah           | 2 hrs ± 10% | 0.45 kg      |

### DIMENSION





# SELF-CONTAINED WHITE LED EMERGENCY DOWN LIGHT

... is designed with low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in operation. Small and aesthetically in design. Easy installation. Snap in and flush mount firmly onto ceiling/panel. It stays inconspicuously and maintains the original interior decoration of the premises.

Suitable for Banks, Computer Rooms, Offices, Cinemas, Hotels, Shops, Supermarkets, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz or 115Vac 50/60Hz or others                                                                                                                                           |
| BATTERY               | : High temp rated Nickel Cadmium cells 2.4V 1.6Ah or others                                                                                                                            |
| LAMP USED             | : 4 x 0.25W SMT NICHIA White LED                                                                                                                                                       |
| RATED PERIOD          | : > 4 hrs or others                                                                                                                                                                    |
| MODE                  | : Non-maintained                                                                                                                                                                       |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                                             |
| POWER CONSUMPTION     | : < 1.3 W                                                                                                                                                                              |
| CHARGE/FAULT MONITOR  | : Super bright Green LED 5mm Ø                                                                                                                                                         |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                                          |
| EMERGENCY LUMINANCE   | : 27 lm                                                                                                                                                                                |
| ELECTROMAGNETIC FIELD | : 6.9m gauss@0.1m                                                                                                                                                                      |
| CHARGER               | : Hybrid controlled charger                                                                                                                                                            |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse, Circuit Protection Fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating                                                                                                                           |
| DIMENSION             | : 123mm(D1) x 64mm(D2) x 75mm(H)                                                                                                                                                       |
| WEIGHT                | : 0.50kg (Net) 0.54kg (Gross)                                                                                                                                                          |
| PACKING               | : One unit per carton                                                                                                                                                                  |
| CARTON / DIMENSION    | : Double wall corrugated / 135mm(L) x 135mm(W) x 120mm(H)                                                                                                                              |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013, SSIEC60598-2-22:2016<br>SSIEC60598: Part 1: 2016                                                                                                 |
| WARRANTY              | : 1 Year                                                                                                                                                                               |

## ORDERING INFORMATION

| MODEL        | LAMP USED             | BATTERY CAPACITY | DURATION    | GROSS WEIGHT |
|--------------|-----------------------|------------------|-------------|--------------|
| EHL 101M-LED | 4x0.25W SMT White LED | 1.6 Ah           | 6 hrs ± 10% | 0.54 kg      |

## EHL 101M-LED

IP 20

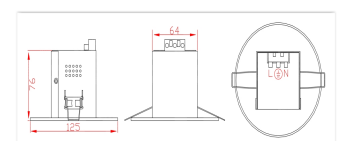
HYBRID  
www.samcom.com

Hybrid Charge



**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LED DOWN LIGHT  
SUPER BRIGHT 4 x 0.25W SMT NICHIA  
WHITE LED LAMP LOW POWER  
CONSUMPTION**

## DIMENSION



D1

D2



# SELF-CONTAINED WHITE LED EMERGENCY DOWN LIGHT

... is designed with low EMI and specially equipped with a customis proprietary Hybrid IC for higher reliability and greater efficiency in operatic Small and aesthetically in design. Easy installation. Snap in and flush mou firmly onto ceiling/panel. It stays inconspicuously and maintains the origin interior decoration of the premises.

Suitable for Banks, Computer Rooms, Offices, Cinemas, Hotels, Shops, Supermarkets, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                                               |
| BATTERY               | : High temp rated Nickel Cadmium cells 2.4V 2.5Ah or others                                                                                                                            |
| LAMP USED             | : 1W SMT White LED or 3W Super Bright LED Module, Light Ouput 280 lm                                                                                                                   |
| RATED PERIOD          | : > 3 hrs or others                                                                                                                                                                    |
| MODE                  | : Non-maintained                                                                                                                                                                       |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                                             |
| POWER CONSUMPTION     | : 1.4W                                                                                                                                                                                 |
| CHARGE/FAULT MONITOR  | : Super bright Green LED 5mm Ø                                                                                                                                                         |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                                          |
| EMERGENCY LUMINANCE   | : 27 lm                                                                                                                                                                                |
| ELECTROMAGNETIC FIELD | : 6.9m gause @ 0.1m                                                                                                                                                                    |
| CHARGER               | : Hybrid controlled charger                                                                                                                                                            |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse, Circuit Protection Fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating                                                                                                                           |
| DIMENSION             | : 200mm(L) x 63mm(W) x 45mm(H)                                                                                                                                                         |
| PACKING               | : One unit per carton                                                                                                                                                                  |
| CARTON / DIMENSION    | : Double wall corrugated / 420mm(L) x 90mm(W) x 90mm(H)                                                                                                                                |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013. SSIEC60598-2-22:2016<br>SSIEC60598: Part 1: 2016                                                                                                 |
| WARRANTY              | : 1 Year                                                                                                                                                                               |

## EHL 109-LED

IP 20

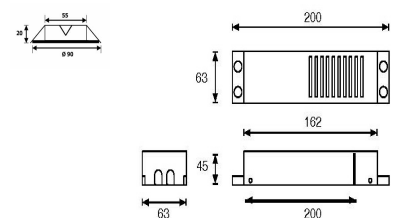


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LED DOWN LIGHT  
SUPER BRIGHT 1W SMT NICHIA WHITE LED  
LAMP LOW POWER CONSUMPTION**

## ORDERING INFORMATION

| MODEL       | LAMP USED           | BATTERY CAPACITY | DURATION    | GROSS WEIGHT |
|-------------|---------------------|------------------|-------------|--------------|
| EHL 109-LED | 1W SMT White LED    | 2.5 Ah           | 3 hrs ± 10% | 1.45 kg      |
| EHL 136-LED | 3W Super Bright LED | 2.5 Ah           | 2 hrs ± 10% | 1.45 kg      |

## DIMENSION





# SELF-CONTAINED EMERGENCY DOWN LIGHT

... is designed with low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in operation. Small and aesthetically in design. Easy installation. Snap in and flush mount firmly onto ceiling/panel. It stays inconspicuously and maintains the original interior decoration of the premises.

Suitable for Banks, Computer Rooms, Offices, Cinemas, Hotels, Shops, Supermarkets, etc



## EHL 110

### TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 6V 4.5AH/7.2AH/10AH Sealed Lead Acid or<br>6V 4.5AH/8AH High temp rated Nickel Cadmium cells or others                                                      |
| LAMP USED             | : 1 x 5W/10W/20W Halogen or others                                                                                                                            |
| RATED PERIOD          | : > 1 hr, 2 hrs, 3 hrs or others                                                                                                                              |
| MODE                  | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : < 5VA                                                                                                                                                       |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : 33 lm                                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 6.9m gause@0.1m                                                                                                                                             |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating                                                                                                  |
| DIMENSION             | : 343mm(L) x 77mm(W) x 50mm(H) (for EHL 110-4LA)                                                                                                              |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 410mm(L) x 90mm(W) x 90mm(H)                                                                                                       |
| COMPLIANCE            | : SS263: Part 2: 1998/A2: 2008, SS563-2: 2010/A1: 2013                                                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

IP 20

HYBRID

Hybrid Charge



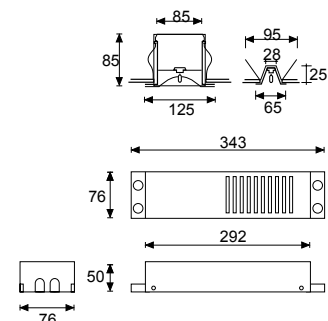
HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY HALOGEN DOWN LIGHT (RECESS MOUNTING)



### ORDERING INFORMATION

| MODEL        | LAMP USED       | BATTERY CAPACITY | DURATION     | GROSS WEIGHT |
|--------------|-----------------|------------------|--------------|--------------|
| EHL 110-4LA  | 1 x 10W Halogen | 4.5 AH           | 2 hrs ± 10%  | 2.20 kg      |
| EHL 110-7LA  | 1 x 10W Halogen | 7 AH             | 3 hrs ± 10%  | 2.70 kg      |
| EHL 110-10LA | 1 x 10W Halogen | 10 AH            | 5 hrs ± 10%  | 3.00 kg      |
| EHL 110-4ND  | 1 x 10W Halogen | 4.5 AH           | 2 hrs ± 10%  | 2.20 kg      |
| EHL 120-7LA  | 1 x 20W Halogen | 7 AH             | 1½ hrs ± 10% | 2.90 kg      |
| EHL 120-10LA | 1 x 20W Halogen | 10 AH            | 2½ hrs ± 10% | 3.00 kg      |
| EHL 120-8ND  | 1 x 20W Halogen | 8 AH             | 2 hrs ± 10%  | 3.00 kg      |

### DIMENSION (mm)



Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-020





# SELF-CONTAINED WHITE LED EMERGENCY DOWN LIGHT

... is designed with low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in operation. Small and aesthetically in design. Easy installation. It stays inconspicuously and maintains the original interior decoration of the premises.

Suitable for Banks, Computer Rooms, Offices, Cinemas, Hotels, Shops, Supermarkets, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                                               |
| BATTERY               | : High temp rated Nickel Cadmium cells 2.4V 2.5Ah                                                                                                                                      |
| LAMP USED             | : 1W SMT White LED or 3W Super Bright LED Module, Light Output 280 lm                                                                                                                  |
| RATED PERIOD          | : > 3 hrs or others                                                                                                                                                                    |
| MODE                  | : Non-maintained                                                                                                                                                                       |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                                             |
| POWER CONSUMPTION     | : 1.3W                                                                                                                                                                                 |
| CHARGE/FAULT MONITOR  | : Super bright Green LED 5mm Ø                                                                                                                                                         |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                                          |
| EMERGENCY LUMINANCE   | : 27 lm                                                                                                                                                                                |
| ELECTROMAGNETIC FIELD | : 6.9m gauss@0.1m                                                                                                                                                                      |
| CHARGER               | : Hybrid controlled charger                                                                                                                                                            |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse, Circuit Protection Fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating                                                                                                                           |
| DIMENSION             | : 185mm(L) x 185mm(W) x 70mm(H)                                                                                                                                                        |
| PACKING               | : One unit per carton                                                                                                                                                                  |
| CARTON / DIMENSION    | : Double wall corrugated / 190mm(L) x 190mm(W) x 80mm(H)                                                                                                                               |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013. SSIEC60598-2-22:2016<br>SSIEC60598: Part 1: 2016                                                                                                 |
| WARRANTY              | : 1 Year                                                                                                                                                                               |

## EHS 109-LED-SQ

IP 20

HYBRID  
www.samcom.com

Hybrid Charge

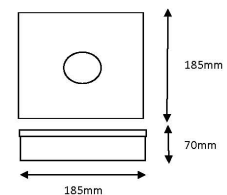


*HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY SQUARE LED DOWN LIGHT SUPER  
BRIGHT 1W SMT NICHIA WHITE LED LAMP LOW  
POWER CONSUMPTION (SURFACE MOUNTING)*

## ORDERING INFORMATION

| MODEL          | LAMP USED           | BATTERY CAPACITY | DURATION    | GROSS WEIGHT |
|----------------|---------------------|------------------|-------------|--------------|
| EHS 109-LED-SQ | 1W SMT White LED    | 2.5 Ah           | 3 hrs ± 10% | 1.45 kg      |
| EHS 136-LED-SQ | 3W Super Bright LED | 2.5 Ah           | 2 hrs ± 10% | 1.45 kg      |

## DIMENSION (mm)



# SELF-CONTAINED EMERGENCY SURFACE DOWN LIGHT



... is designed with low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in operation. A recess mounted version of the SAMCOM Model EHL 110/ 120. Compact and lightweight. Easy and fast installation. It stays inconspicuously and maintains the original interior decoration of the premises.

Suitable for Banks, Computer Rooms, Offices, Cinemas, Hotels, Shops, Supermarkets, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 6V 4.5AH Sealed Lead Acid or<br>6V 2.5AH / 4.5AH High temp rated Nickel Cadmium cells or others                                                             |
| LAMP USED             | : 1 x 5W/10W/20W Halogen or others                                                                                                                            |
| RATED PERIOD          | : 1 hr, 2 hrs, 3 hrs ± 10% or others                                                                                                                          |
| MODE                  | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : < 5.3 W                                                                                                                                                     |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hours                                                                                                                                               |
| EMERGENCY LUMINANCE   | : 33 lm                                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 1.3m gauss @ 0.1m                                                                                                                                           |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole                                                                               |
| DIMENSION             | : 185mm(L) x 185mm(W) x 70mm(H)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 190mm(L) x 190mm(W) x 80mm(H)                                                                                                      |
| COMPLIANCE            | : SS263: Part 2: 1998, SS563-2: 2010/A1: 2013                                                                                                                 |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## EHS 110SQ

IP 20

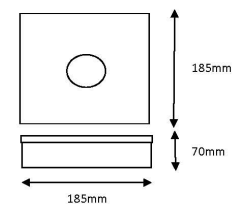


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING  
SQUARE HALOGEN DOWN LIGHT (SURFACE  
MOUNTING)**

## ORDERING INFORMATION

| MODEL         | LAMP USED       | BATTERY CAPACITY | DURATION      | WEIGHT GROSS |
|---------------|-----------------|------------------|---------------|--------------|
| EHS 105SQ-4LA | 1 x 5W Halogen  | 4.5 AH           | 3 hrs ± 10%   | 2.2 kg       |
| EHS 105SQ-4ND | 1 x 5W Halogen  | 4.5 AH           | 3 hrs ± 10%   | 3.0 kg       |
| EHS 105SQ-2ND | 1 x 5W Halogen  | 2.5 AH           | 1.5 hrs ± 10% | 2.2 kg       |
| EHS 110SQ-4LA | 1 x 10W Halogen | 4.5 AH           | 2 hrs ± 10%   | 2.2 kg       |
| EHS 110SQ-4ND | 1 x 10W Halogen | 4.5 AH           | 2 hrs ± 10%   | 3.0 kg       |
| EHS 120SQ-4LA | 1 x 20W Halogen | 4.5 AH           | 1 hr ± 10%    | 2.2 kg       |
| EHS 120SQ-4ND | 1 x 20W Halogen | 4.5 AH           | 1 hr ± 10%    | 3.0 kg       |

## DIMENSION (mm)



Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-022



# SELF-CONTAINED WHITE LED EMERGENCY DOWN LIGHT

... is designed with low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in operation. Small and aesthetically in design. Easy installation. It stays inconspicuously and maintains the original interior decoration of the premises.

Suitable for Banks, Computer Rooms, Offices, Cinemas, Hotels, Shops, Supermarkets, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                                               |
| BATTERY               | : High temp rated Nickel Cadmium cells 2.4V 2.5Ah                                                                                                                                      |
| LAMP USED             | : 1W SMT NICHIA White LED                                                                                                                                                              |
| RATED PERIOD          | : > 3 hrs or others                                                                                                                                                                    |
| MODE                  | : Non-maintained                                                                                                                                                                       |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                                             |
| POWER CONSUMPTION     | : < 1.4 W                                                                                                                                                                              |
| CHARGE/FAULT MONITOR  | : Super bright Green LED 5mm Ø                                                                                                                                                         |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                                          |
| EMERGENCY LUMINANCE   | : 27 lm                                                                                                                                                                                |
| ELECTROMAGNETIC FIELD | : 6.9m gause@0.1m                                                                                                                                                                      |
| CHARGER               | : Hybrid controlled charger                                                                                                                                                            |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse, Circuit Protection Fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating                                                                                                                           |
| DIMENSION             | : 112mm Ø x 170mm (H)                                                                                                                                                                  |
| PACKING               | : One unit per carton                                                                                                                                                                  |
| CARTON / DIMENSION    | : Double wall corrugated / 120mm(L) x 120mm(W) x 185mm(H)                                                                                                                              |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013. SSIEC60598-2-22:2016<br>SSIEC60598: Part 1: 2016                                                                                                 |
| WARRANTY              | : 1 Year                                                                                                                                                                               |

## EHS 109-LED-CLD

IP 20

HYBRID  
www

Hybrid Charge

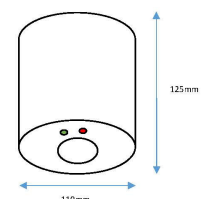


*HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY SQUARE LED DOWN LIGHT SUPER  
BRIGHT 1W SMT NICHIA WHITE LED LAMP LOW  
POWER CONSUMPTION (SURFACE MOUNTING)*

## ORDERING INFORMATION

| MODEL           | LAMP USED         | BATTERY CAPACITY | DURATION    | WEIGHT  |
|-----------------|-------------------|------------------|-------------|---------|
| EHS 109-LED-CLD | 1 W SMT White LED | 2.5 Ah           | 3 hrs ± 10% | 1.45 kg |

## DIMENSION





# SELF-CONTAINED WHITE LED EMERGENCY TWIN LIGHT

... is designed with low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in operation. Compact and lightweight. Easy to install. Portable, allows flexibility in usage. Adjustable twin lamp allows flexibility in angle of projection.

Suitable for Shops, Supermarkets, Factories, Schools, Banks, Computer Rooms, Offices, Public Halls, Restaurants, Hospitals, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230/240Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                  |
| BATTERY               | : 2.4V 2.5Ah Hight Temp Rated Nickel Cadmium cells.                                                                                                           |
| LAMP USED             | : 2 x SMT NICHIA White LED                                                                                                                                    |
| RATED PERIOD          | : > 2 hrs, 3 hrs or others                                                                                                                                    |
| MODE                  | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE | : ta 40 ° C                                                                                                                                                   |
| POWER COMSUMPTION     | : < 1.4 W                                                                                                                                                     |
| CHARGE MONITOR        | : Super bright Green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : 88 lm                                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 8.7m gause@0.1m                                                                                                                                             |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Mounted Fire Retardant ABS housing<br>20mm Ø K/O hole<br>Fire Retardant ABS Lamp Head                                                                       |
| DIMENSION             | : 305mm(L) x 95mm(W) x 136mm(H)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 315mm(L) x 100mm(W) x 145mm(H)                                                                                                     |
| COMPLIANCE            | : SS563-1:2010,SS563-2:2010/A1:2013, SSIEC 60598-2-22:2016, SSIEC60598:Part 1:2016                                                                            |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## ETL 201P-LED

IP 20

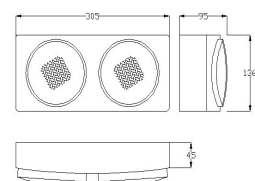


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LED TWIN LIGHT**  
**SUPER BRIGHT 1W SMT NICHIA WHITE LED LAMP LOW POWER CONSUMPTION**

## ORDERING INFORMATION

| MODEL       | LAMP USED         | BATTERY CAPACITY | DURATION    | WEIGHT GROSS |
|-------------|-------------------|------------------|-------------|--------------|
| ETL 201-LED | 2 x SMT White LED | 2.5 AH           | 3 hrs ± 10% | 2.2 kg       |

## DIMENSION (mm)





# SELF-CONTAINED EMERGENCY LED SINGLE LIGHT

... is designed with low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in operation. Compact and lightweight. Easy to install. Portable, allows flexibility in usage. Adjustable twin lamp allows flexibility in angle of projection.

Suitable for Shops, Supermarkets, Factories, Schools, Banks, Computer Rooms, Offices, Public Halls, Restaurants, Hospitals, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230/240Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                  |
| BATTERY               | : 2.4V 2.5Ah High Temp Rated Nickel Cadmium cells                                                                                                             |
| LAMP USED             | : 1 x SMT NICHIA White LED                                                                                                                                    |
| RATED PERIOD          | : >3 hrs, 4 hrs or others                                                                                                                                     |
| MODE                  | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : < 1.4 W                                                                                                                                                     |
| CHARGE MONITOR        | : Super bright Green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : 43 lm                                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 7m gauss@0.1m                                                                                                                                               |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole<br>Fire Retardant ABS Lamp Head                                               |
| DIMENSION             | : 135mm(L) x 95mm(W) x 310mm(H)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 390mm(L) x 100mm(W) x 180mm(H)                                                                                                     |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013, SSIEC60598-2-22:2016<br>SSIEC60598: Part 1: 2016                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## ESS 108 - LED

IP 20

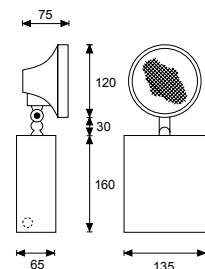


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LED SINGLE LIGHT**  
**SUPER BRIGHT SMT NICHIA WHITE LED LAMP LOW POWER CONSUMPTION**

## ORDERING INFORMATION

| MODEL       | LAMP USED         | BATTERY CAPACITY | DURATION | WEIGHT |
|-------------|-------------------|------------------|----------|--------|
| ESS 108-LED | 1 x SMT White LED | 2.5 AH           | 3 hrs    | 2.0 kg |

## DIMENSION (mm)



Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



Certificate No. AJA047585

PSB Singapore

ISO9001:2015-SAM-CAT-2018-025





# SELF-CONTAINED LED EMERGENCY LIGHTING

... is designed with very low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in usage. Adjustable lamp allows flexibility in angle of projection.

Suitable for Shops, Supermarkets, Factories, Schools, Banks, Computer Rooms, Offices, Public Halls, Restaurants, Hospitals, etc.



## TECHNICAL CHARACTERISTICS

|                        |                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE          | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY                | : High temp. rated Nickel Cadmium cell 2.5V 2.5AH or others                                                                                                   |
| LAMP USED              | : SMT White LED                                                                                                                                               |
| RATED PERIOD           | : > 3 hrs or others                                                                                                                                           |
| MODE                   | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE: | ta 40° C                                                                                                                                                      |
| POWER CONSUMPTION      | : < 1.4 W                                                                                                                                                     |
| CHARGE MONITOR         | : Super bright Green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD        | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE:   | 43 lm                                                                                                                                                         |
| ELECTROMAGNETIC FIELD: | 6.9m gauss @ 0.1m                                                                                                                                             |
| CHARGER                | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION             | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION           | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole<br>Fire Retardant ABS Lamp Head                                               |
| DIMENSION              | : 185mm(L) x 185mm(W) x 215mm(H)                                                                                                                              |
| PACKING                | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION     | : Double wall corrugated / 190mm(L) x 190mm(W) x 220mm(H)                                                                                                     |
| COMPLIANCE             | : SS563-1:2010, SS563-2:2010/A1:2013. SSIEC60598-2-22:2016<br>SSIEC60598: Part 1: 2016                                                                        |
| WARRANTY               | : 1 Year                                                                                                                                                      |

## ESL 108-LED

IP 20

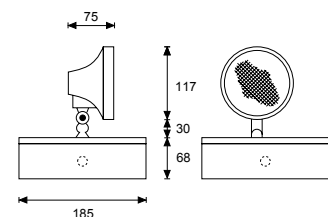


**HYBRID IC CONTROLLED SELF-CONTAINED LED EMERGENCY LIGHTING SURFACE/RECESS SINGLE LAMP**

## ORDERING INFORMATION

| MODEL       | LAMP USED     | BATTERY CAPACITY | DURATION    | GROSS WEIGHT |
|-------------|---------------|------------------|-------------|--------------|
| ESL 108-LED | SMT White LED | 2.5 AH           | 3 hrs ± 10% | 1.6 kg       |

## DIMENSION (mm)





# SELF-CONTAINED WHITE LED EMERGENCY TWIN LIGHT

... is designed with low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in operation. Compact and lightweight. Easy to install. Portable, allows flexibility in usage. Adjustable twin lamp allows flexibility in angle of projection.

Suitable for Shops, Supermarkets, Factories, Schools, Banks, Computer Rooms, Offices, Public Halls, Restaurants, Hospitals, etc.

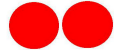


## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230/240Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                  |
| BATTERY               | : 2.4V 2.5Ah/4.5Ah High Temp Rated Nickel Cadmium cells                                                                                                       |
| LAMP USED             | : 2 x SMT NICHIA White LED (T = 3W)                                                                                                                           |
| RATED PERIOD          | : >3 hrs, 4 hrs or others                                                                                                                                     |
| MODE                  | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : < 1.4 W                                                                                                                                                     |
| CHARGE MONITOR        | : Super bright Green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : 86 lm                                                                                                                                                       |
| ELECTROMAGNETIC FIELD | : 17 m gauss@0.1m                                                                                                                                             |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole Fire Retardant ABS Lamp Head                                                  |
| DIMENSION             | : 285mm(L) x 95mm(W) x 310mm(H)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 310mm(L) x 100mm(W) x 335mm(H)                                                                                                     |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013. SSIEC60598-2-22:2016<br>SSIEC60598: Part 1: 2016                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## ETL 208 - LED

IP20

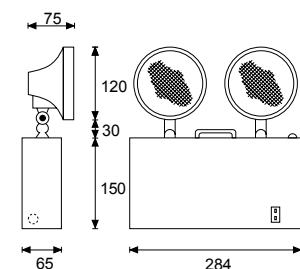


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LED TWIN LIGHT  
SUPER BRIGHT 1W NICHIA WHITE LED  
LAMP LOW POWER CONSUMPTION**

## ORDERING INFORMATION

| MODEL           | LAMP USED         | BATTERY CAPACITY | DURATION | WEIGHT |
|-----------------|-------------------|------------------|----------|--------|
| ETL 208-LED-2ND | 2 x SMT White LED | 2.5 AH           | 3 hrs    | 2.0 kg |
| ETL 208-LED-4ND | 2 x SMT White LED | 4.5 AH           | 5 hrs    | 2.3 kg |

## DIMENSION (mm)





# SELF-CONTAINED EMERGENCY TWIN LIGHT

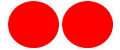
... is designed with low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in operation. Compact and lightweight. Easy to install. Portable, allows flexibility in usage. Adjustable twin lamp allows flexibility in angle of projection.

Suitable for Shop, Supermarkets, Schools, Banks, Offices, Restaurants, Hospitals, etc.



## ETL 210

IP 20



**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY TWIN LIGHT**

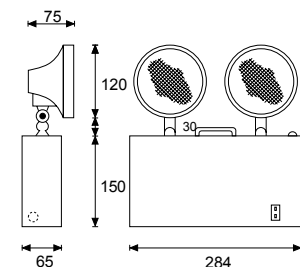
### TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac or 115Vac 50/60Hz±10% or others A: 0.03 PF: 0.86                                                                                                     |
| BATTERY               | : 6V 4.5AH/7AH/10AH Sealed Lead Acid or<br>6V 4.5AH/8Ah High T emp Rated Nickel Cadmium cells or others                                                       |
| LAMP USED             | : 2 x 5W/10W Halogen or others                                                                                                                                |
| RATED PERIOD          | : > 1 hr, 2 hrs, 3 hrs or others                                                                                                                              |
| MODE                  | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : 5.3W                                                                                                                                                        |
| CHARGE MONITOR        | : Super bright Green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : 86 Lumen                                                                                                                                                    |
| ELECTROMAGNETIC FIELD | : 17m gauss@0.1m                                                                                                                                              |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole. Fire Retardant Acrylic Opal diffuser.                                        |
| CLASSIFICATION        | : Co/A16, C90/A16                                                                                                                                             |
| DIMENSION             | : 285mm(L) x 95mm(W) x 310mm(H)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 310mm(L) x 100mm(W) x 335mm(H)                                                                                                     |
| COMPLIANCE            | : SS263: Part 2: 1998/A2: 2008, SS563-2: 2010/A1: 2013                                                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

### ORDERING INFORMATION

| MODEL        | LAMP USED       | BATTERY CAPACITY | DURATION      | GROSS WEIGHT |
|--------------|-----------------|------------------|---------------|--------------|
| ETL 205-4LA  | 2 x 5W Halogen  | 4.5 AH           | 2 hrs ± 10%   | 2.90 kg      |
| ETL 205-7LA  | 2 x 5W Halogen  | 7.2 AH           | 3.5 hrs ± 10% | 3.40 kg      |
| ETL 205-10LA | 2 x 5W Halogen  | 10 AH            | 5.5 hrs ± 10% | 4.20 kg      |
| ETL 205-4ND  | 2 x 5W Halogen  | 4.5 AH           | 2 hrs ± 10%   | 2.80 kg      |
| ETL 210-4LA  | 2 x 10W Halogen | 4.5 AH           | 1 hr ± 10%    | 2.90 kg      |
| ETL 210-7LA  | 2 x 10W Halogen | 7.2 AH           | 2 hrs ± 10%   | 3.40 kg      |
| ETL 210-10LA | 2 x 10W Halogen | 10 AH            | 3 hrs ± 10%   | 4.20 kg      |
| ETL 210-4ND  | 2 x 10W Halogen | 4.5 AH           | 1 hr ± 10%    | 2.80 kg      |

### DIMENSION (mm)



Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



Certificate No. AJA047595



PSB Singapore



ISO9001:2015-SAM-CAT-2018-028



# SELF-CONTAINED WHITE LED EMERGENCY TWIN LIGHT

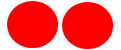
... is designed with low EMI and specially equipped with a customised proprietary Hybrid IC for higher reliability and greater efficiency in operation. Compact and lightweight. Easy to install. Portable, allows flexibility in usage. Adjustable twin lamp allows flexibility in angle of projection.

Suitable for Shops, Supermarkets, Factories, Schools, Banks, Computer Rooms, Offices, Public Halls, Restaurants, Hospitals, etc.



## ETL 208-LED-WP

IP 65



**HYBRID IC CONTROLLED SELF-CONTAINED WEATHERPROOF EMERGENCY TWIN LIGHT**

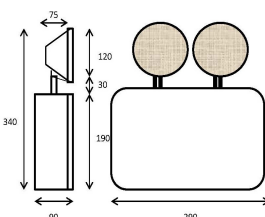
### TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230/240Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                  |
| BATTERY               | : 2.4V 2.5Ah or 4.5Ah High Temp Rated Nickel Cadmium Cells                                                                                                    |
| LAMP USED             | : 2 x SMT NICHIA White LED (T = 3W)                                                                                                                           |
| RATED PERIOD          | : > 3 hrs, 4 hrs or others                                                                                                                                    |
| MODE                  | : Non-maintained                                                                                                                                              |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : <1.4 W                                                                                                                                                      |
| CHARGE MONITOR        | : Super bright Green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : 86lm                                                                                                                                                        |
| ELECTROMAGNETIC FIELD | : 8.7m gauss@0.1m                                                                                                                                             |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Moulded Fire Retardant ABS Housing<br>Cast Aluminium Lamp Head                                                                                              |
| DIMENSION             | : 290mm(L) x 90mm(W) x 340mm(H)                                                                                                                               |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 310mm(L) x 100mm(W) x 350mm(H)                                                                                                     |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013. SSIEC60598-2-22:2016<br>SSIEC60598: Part 1: 2016                                                                        |
| WARRANTY              | : 1 Year                                                                                                                                                      |

### ORDERING INFORMATION

| MODEL              | LAMP USED         | BATTERY CAPACITY | DURATION    | GROSS WEIGHT |
|--------------------|-------------------|------------------|-------------|--------------|
| ETL 208-LED-WP-2ND | 2 x SMT White LED | 2.5 AH           | 3 hrs ± 10% | 2.00 kg      |
| ETL 208-LED-WP-4ND | 2 x SMT White LED | 4.5 AH           | 5 hrs ± 10% | 2.30 kg      |

### DIMENSION (mm)





# SELF-CONTAINED LED EMERGENCY LIGHTING

... is designed and specially equipped with SAMCOM Model EMK Power Pack to achieve higher reliability and greater efficiency in operation. Available in either 1 x 9W, 2 x 9W 1 x 18W, 2 x 18W or other LED lamps and in maintained, non-maintained or sustained mode to assure continuous operation during emergency.

Suitable for House Entrances, Balconies, Staircases, Corridors, Children's Rooms, Gardens, Bathrooms, Shelters, Parking Lots, Factories, Offices, Hotels, Pedestrian Passages, etc.

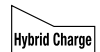


## EML 120-LED-BATTEN

### TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 6V2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                                |
| LAMP USED             | : Philips' Essential LED tube T8 8W (600mm), 16W (1200mm) or Others                                                                                           |
| RATED PERIOD          | : 1 hr, 2 hrs, 3 hrs ± 10% or others                                                                                                                          |
| MODE                  | : Sustained/Combined Maintained/Maintained or Non-maintained                                                                                                  |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : 3.3W / 8W (2') / 16W (4')                                                                                                                                   |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : Design range from 20~100%                                                                                                                                   |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steel                                                                                                                            |
| DIMENSION             | : 1280mm(L) x 105mm(W) x 100mm(H) (EML 140M)                                                                                                                  |
| PACKING               | : One unit per carton                                                                                                                                         |
| COMPLIANCE            | SS263 : Part 2/A2: 2008, SS563-2: 2010/A1:2013                                                                                                                |
| WARRANTY              | : 1 Year                                                                                                                                                      |

IP 20



*HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING LED LAMP*

### ORDERING INFORMATION

| MODEL                | LAMP USED | MODE           |
|----------------------|-----------|----------------|
| EML 120M-LED-BATTEN  | 1 x 2FT   | Maintained     |
| EML 120NM-LED-BATTEN | 1 x 2FT   | Non-Maintained |
| EML 220S-LED-BATTEN  | 2 x 2FT   | Sustained      |
| EML 140M-LED-BATTEN  | 1 x 4FT   | Maintained     |
| EML 140NM-LED-BATTEN | 1 x 4FT   | Non-Maintained |
| EML 240S-LED-BATTEN  | 2 x 4FT   | Sustained      |

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-031

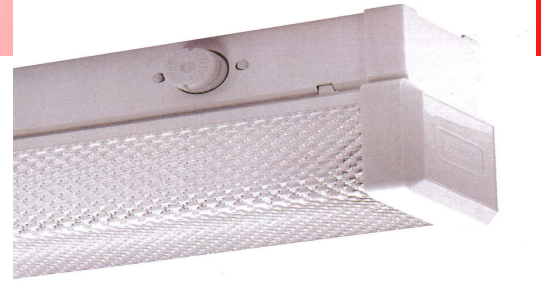




# SELF-CONTAINED EMERGENCY LIGHTING

... is designed and specially equipped with SAMCOM Model EMK Power Pack to achieve higher reliability and greater efficiency in operation. Available in either 1 x 18W, 2 x 18W, 1 x 36W, 2 x 36W or other fluorescent lamps and in maintained, non-maintained or sustained mode to assure continuous operation during emergency.

Suitable for House Entrances, Balconies, Staircases, Corridors, Children's Rooms, Gardens, Bathrooms, Shelters, Parking Lots, Factories, Offices, Hotels, Pedestrian Passages, etc.



## EML 120/140-DIAKON

IP 20

HYBRID  
www.samcom.com

Hybrid Charge



### TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 4.8V 2.5AH/4.5AH or 6V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                           |
| LAMP USED             | : Fluorescent tube T8 18W/36W or T5 14W/28W                                                                                                                   |
| RATED PERIOD          | : 1 hr, 2 hrs, 3 hrs ± 10% or others                                                                                                                          |
| MODE                  | : Combined Maintained/Maintained or Non-maintained                                                                                                            |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : 3.3W / 30W (2') / 47W (4') Magnetic Ballast                                                                                                                 |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : Design range from 10~100%                                                                                                                                   |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Housing and diffuser                                                                                                                                        |
| DIMENSION             | : 1280mm(L) x 105mm(W) x 100mm(H) (EML 140M)                                                                                                                  |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 1300mm(L) x 110mm(W) x 110mm(H)                                                                                                    |
| COMPLIANCE            | : SS263 : Part 2/A2: 2008, SS563-2: 2010/A1:2013                                                                                                              |
| WARRANTY              | : 1 Year                                                                                                                                                      |

HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING FLUORESCENT  
LAMP

### ORDERING INFORMATION

| MODEL            | LAMP USED | MODE                |
|------------------|-----------|---------------------|
| EML 120M-DIAKON  | 1 x 18W   | Maintained          |
| EML 120NM-DIAKON | 1 x 18W   | Non-Maintained      |
| EML 220CM-DIAKON | 2 x 18W   | Combined-Maintained |
| EML 140M-DIAKON  | 1 x 36W   | Maintained          |
| EML 140NM-DIAKON | 1 x 36W   | Non-Maintained      |
| EML 240CM-DIAKON | 2 x 36W   | Combined-Maintained |

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



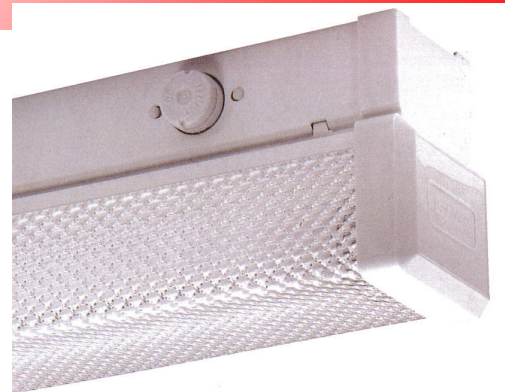
ISO9001:2015-SAM-CAT-2018-032



# SELF-CONTAINED LED EMERGENCY LIGHTING

... is designed and specially equipped with SAMCOM Model EMK Power Pack to achieve higher reliability and greater efficiency in operation. Available in either 1 x 2ft, 1 x 4ft or other LED lamps and in maintained, non-maintained or sustained mode to assure continuous operation during emergency.

Suitable for House Entrances, Balconies, Staircases, Corridors, Children's Rooms, Gardens, Bathrooms, Shelters, Parking Lots, Factories, Offices, Hotels, Pedestrian Passages, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 6V2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                                |
| LAMP USED             | : Philips 'Essential LED tube T8 9W (600mm), 16W (1200mm) or Others                                                                                           |
| RATED PERIOD          | : 1 hr, 2 hrs, 3 hrs ± 10% or others                                                                                                                          |
| MODE                  | : Sustained/Combined Maintained/Maintained or Non-maintained                                                                                                  |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : 3.3W / 9W (2') / 16W (4')                                                                                                                                   |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : Design range from 20~100%                                                                                                                                   |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Housing and diffuser                                                                                                                                        |
| DIMENSION             | : 1280mm(L) x 105mm(W) x 100mm(H) (EML 140M)                                                                                                                  |
| PACKING               | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION    | : Double wall corrugated / 1300mm(L) x 110mm(W) x 110mm(H)                                                                                                    |
| COMPLIANCE            | : SS263 : Part 2/A2: 2008, SS563-2: 2010/A1:2013                                                                                                              |
| WARRANTY              | : 1 Year                                                                                                                                                      |

## EML 140-LED-DIAKON

IP 20



*HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY DIAKON LIGHTING LED LAMP*

## ORDERING INFORMATION

| MODEL                | LAMP USED | MODE           |
|----------------------|-----------|----------------|
| EML 120M-LED- DIAKON | 1 x 2FT   | Maintained     |
| EML 120NM-LED-DIAKON | 1 x 2FT   | Non-Maintained |
| EML 220S-LED-DIAKON  | 2 x 2FT   | Sustained      |
| EML 140M-LED-DIAKON  | 1 x 4FT   | Maintained     |
| EML 140NM-LED-DIAKON | 1 x 4FT   | Non-Maintained |
| EML 240S-LED-DIAKON  | 2 x 4FT   | Sustained      |

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-033



# SELF-CONTAINED WEATHERPROOF EMERGENCY LIGHTING

... is designed and specially equipped with SAMCOM Model EMK Power Pack to achieve higher reliability and greater efficiency in operation. Available in either 1 x 18W, 2 x 18W, 1 x 36W, 2 x 36W or other fluorescent lamps and in maintained, non-maintained or sustained mode to assure continuous operation during emergency.

Suitable for House Entrances, Balconies, Staircases, Corridors, Children's Rooms, Gardens, Bathrooms, Shelters, Parking Lots, Factories, Offices, Hotels, Pedestrian Passages, etc.



## EML 120/140-WP

### TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY               | : 4.8V 2.5AH/4.5AH or 6V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                           |
| LAMP USED             | : Fluorescent tube T8 18W/36W or T5 14W/28W                                                                                                                   |
| RATED PERIOD          | : 1 hr, 2 hrs, 3 hrs ± 10% or others                                                                                                                          |
| MODE                  | : Sustained/Combined Maintained/Maintained or Non-maintained                                                                                                  |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                                    |
| POWER CONSUMPTION     | : 30W (1x18W T8) / 47W (1x36W T8) - Magnetic Ballast                                                                                                          |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                                |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE   | : Design range from 10~100%                                                                                                                                   |
| CHARGER               | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION          | : Moulded Fire Retardant ABS Housing & Polycarbonate Diffuser                                                                                                 |
| COMPLIANCE            | : SS263 : Part 2/A2: 2008, SS563-2: 2010/A1:2013                                                                                                              |
| WARRANTY              | : 1 Year                                                                                                                                                      |

IP 65

HYBRID  
www.samcom.com

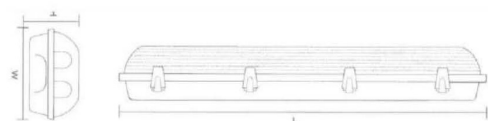
Hybrid Charge



**HYBRID IC CONTROLLED SELF-CONTAINED WEATHERPROOF EMERGENCY LIGHTING FLUORESCENT LAMP**

### ORDERING INFORMATION

| MODEL        | LAMP USED |
|--------------|-----------|
| EML 120M-WP  | 1 x 18W   |
| EML 140M-WP  | 1 x 36W   |
| EML 220S-WP  | 2 x 18W   |
| EML 240S-WP  | 2 x 36W   |
| EML 220CM-WP | 2 x 18W   |
| EML 240CM-WP | 2 x 36W   |
| EML 120NM-WP | 1 x 18W   |
| EML 140NM-WP | 1 x 36W   |



# SELF-CONTAINED EMERGENCY LIGHTING



... is designed and specially equipped with SAMCOM Model EMK Power Pack to achieve higher reliability and greater efficiency in operation. Available in either 2 x 7W or 2 x 9W PL lamps and in sustained/combined/maintained mode to assure continuous operation during emergency.

Suitable for House Entrances, Balconies, Staircases, Corridors, Children's Rooms, Gardens, Bathrooms, Shelters, Parking Lots, Factories, Offices, Hotels, Pedestrian Passages, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                              |
| BATTERY               | : 4.8V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                     |
| LAMP USED             | : PL lamp 2 x 9W, 2 x 11W or others                                                                                                                   |
| RATED PERIOD          | : 1 hr, 2 hrs ± 10% or others                                                                                                                         |
| MODE                  | : Sustained/Combined Maintained                                                                                                                       |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                            |
| POWER CONSUMPTION     | : 13.2W (PL 9) 15.5W (PL 11)                                                                                                                          |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                        |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                         |
| EMERGENCY LUMINANCE   | : 210 lm (PL 9) 360 lm (PL 11)                                                                                                                        |
| ELECTROMAGNETIC FIELD | : 16m gause@0.1m                                                                                                                                      |
| CHARGER               | : Hybrid controlled charger                                                                                                                           |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid circuit |
| CONSTRUCTION          | : Moulded ABS housing and diffuser                                                                                                                    |
| DIMENSION             | : 300mm(L) x 300mm(W) x 85mm(H)                                                                                                                       |
| WEIGHT                | : 2.5kg (Net) / 2.6kg (Gross)                                                                                                                         |
| PACKING               | : One unit per carton                                                                                                                                 |
| CARTON / DIMENSION    | : Double wall corrugated / 310mm(L) x 310mm(W) x 95mm(H)                                                                                              |
| COMPLIANCE            | : SS263 : Part 2: 1998/A2: 2008, SS563-2: 2010/A1:2013                                                                                                |
| WARRANTY              | : 1 Year                                                                                                                                              |

## EPL 29/211

IP 54

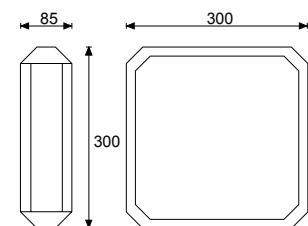


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING PL LAMP**

## ORDERING INFORMATION

| MODEL        | LAMP USED |
|--------------|-----------|
| EPL 29CM-SQ  | 2 x PL9W  |
| EPL 211CM-SQ | 2 x PL11W |

## DIMENSION (mm)



# SELF-CONTAINED EMERGENCY LIGHTING



... is designed and specially equipped with SAMCOM Model EMK Power Pack to achieve higher reliability and greater efficiency in operation.

Suitable for House Entrances, Balconies, Staircases, Corridors, Children's Rooms, Gardens, Bathrooms, Shelters, Parking Lots, Factories, Offices, Hotels, Pedestrian Passages, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                              |
| BATTERY               | : 6.0V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                     |
| LAMP USED             | : 1 x 16W Cool White LED others                                                                                                                       |
| RATED PERIOD          | : 1 hr, 2 hrs ± 10% or others                                                                                                                         |
| MODE                  | : Maintained                                                                                                                                          |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                            |
| POWER CONSUMPTION     | : 21W                                                                                                                                                 |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                        |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                         |
| EMERGENCY LUMINANCE   | : 320 lm                                                                                                                                              |
| ELECTROMAGNETIC FIELD | : 16m gause@0.1m                                                                                                                                      |
| CHARGER               | : Hybrid controlled charger                                                                                                                           |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid circuit |
| CONSTRUCTION          | : Moulded ABS housing and diffuser                                                                                                                    |
| DIMENSION             | : 300mm(L) x 300mm(W) x 85mm(H)                                                                                                                       |
| WEIGHT                | : 2.5kg (Net) / 2.6kg (Gross)                                                                                                                         |
| PACKING               | : One unit per carton                                                                                                                                 |
| CARTON / DIMENSION    | : Double wall corrugated / 310mm(L) x 310mm(W) x 95mm(H)                                                                                              |
| COMPLIANCE            | : SS563-1:2010, SS563-2:2010/A1:2013. SSIEC60598-2-22:2016<br>SSIEC60598: Part 1: 2016                                                                |
| WARRANTY              | : 1 Year                                                                                                                                              |

## EPL 116-LED-SQ

IP 54

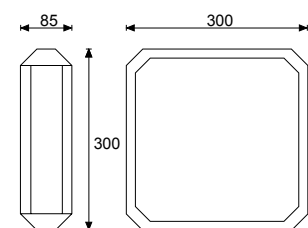


*HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING LED LAMP*

## ORDERING INFORMATION

| MODEL          | LAMP USED |
|----------------|-----------|
| EPL 116-LED-SQ | 1 x 16W   |

## DIMENSION (mm)





... is designed and specially equipped with SAMCOM Model EMK Power Pack to achieve higher reliability and greater efficiency in operation. Available in 2 x 9W PL lamps and in sustained/combined/maintained mode to assure continuous operation during emergency.

Suitable for House Entrances, Balconies, Staircases, Corridors, Children's Rooms, Gardens, Bathrooms, Shelters, Parking Lots, Factories, Offices, Hotels, Pedestrian Passages, etc.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                              |
| BATTERY               | : 4.8V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                     |
| LAMP USED             | : PL lamp 2 x 9W or others                                                                                                                            |
| RATED PERIOD          | : 1 hr, 2 hrs ± 10% or others                                                                                                                         |
| MODE                  | : Sustained/Combined Maintained                                                                                                                       |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                            |
| POWER CONSUMPTION     | : 13.2W                                                                                                                                               |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                        |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                         |
| EMERGENCY LUMINANCE   | : 210 lm                                                                                                                                              |
| ELECTROMAGNETIC FIELD | : 16m gause@0.1m                                                                                                                                      |
| CHARGER               | : Hybrid controlled charger                                                                                                                           |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid circuit |
| CONSTRUCTION          | : Moulded ABS housing and diffuser                                                                                                                    |
| DIMENSION             | : 335mm(L) x 335mm(W) x 100mm(H)                                                                                                                      |
| WEIGHT                | : 2.8kg (Net) / 3.0kg (Gross)                                                                                                                         |
| PACKING               | : One unit per carton                                                                                                                                 |
| CARTON / DIMENSION    | : Double wall corrugated / 350mm(L) x 350mm(W) x 1105mm(H)                                                                                            |
| COMPLIANCE            | : SS263 : Part 2: 1998/A2: 2008, SS563-2: 2010/A1:2013                                                                                                |
| WARRANTY              | : 1 Year                                                                                                                                              |

## EPL 29CM-R

IP 54

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Hybrid Charge

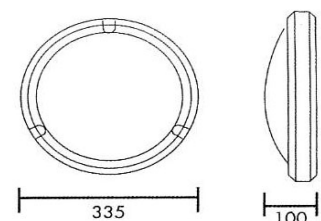


HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING PL LAMP

## ORDERING INFORMATION

| MODEL      | LAMP USED      |
|------------|----------------|
| EPL 29CM-R | 2 x 9W PL LAMP |

## DIMENSION (mm)

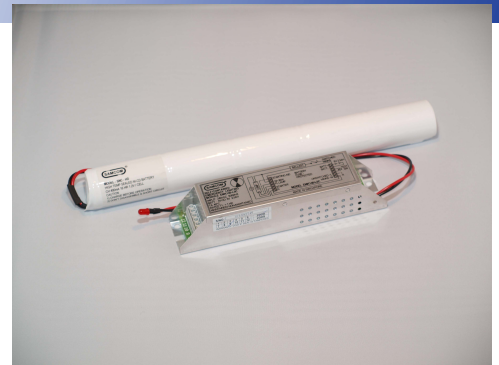


# SELF-CONTAINED EMERGENCY LIGHTING MODULE



.... Is specially designed to be very compact and small in size. With this small size advantage, it can be easily installed into various types of fluorescent luminaire fittings. It is equipped with a Hi-temperature Nickel Cadmium battery pack and a super bright LED charge indicator.

The built-in customised proprietary Hybrid IC circuitry enhances reliability and efficiency in operation.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                              |
| BATTERY               | : 4.8V 2.5AH/4.5AH or 6V 2.5AH/4.5AH or 7.2V 2.5AH/4.5AH<br>High temp rated Nickel Cadmium cells or others                                            |
| LAMP USED             | : FL tube 14W~20W,28W~40W,58W~65W, 4 pins PLC,PLL,2D or others                                                                                        |
| RATED PERIOD          | : 1 hr, 2 hrs ± 10% or others                                                                                                                         |
| MODE                  | : Maintained/Non-Maintained                                                                                                                           |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                            |
| POWER CONSUMPTION     | : 3.3W                                                                                                                                                |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                        |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                         |
| EMERGENCY LUMINANCE   | : Design from 20 ~ 100%)                                                                                                                              |
| ELECTROMAGNETIC FIELD | : 16m gause@0.1m                                                                                                                                      |
| CHARGER               | : Hybrid controlled charger                                                                                                                           |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid circuit |
| CONSTRUCTION          | : Aluminium case / EG steel with polyster coated case                                                                                                 |
| TESTING FACILITY      | : Push Button                                                                                                                                         |
| PACKING               | : One unit per carton                                                                                                                                 |
| CARTON / DIMENSION    | : Double wall corrugated / 330mm(L) x 90mm(W) x 50mm(H)                                                                                               |
| COMPLIANCE            | : IEC 61347-2-7: 2000                                                                                                                                 |
| WARRANTY              | : 1 Year                                                                                                                                              |

## EMK 120/140

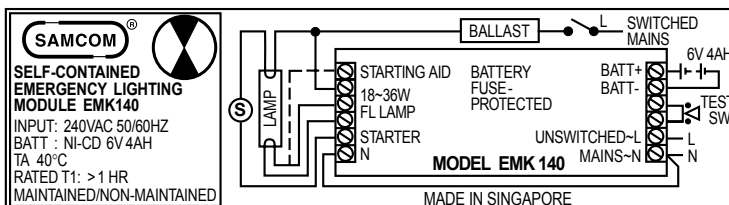
HYBRID  
www.samcom.com

Hybrid Charge

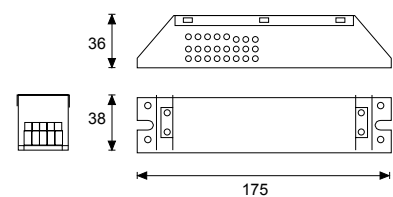


HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING MODULE FOR  
FLUORESCENT LAMP

## MARKING AND WIRING DIAGRAM



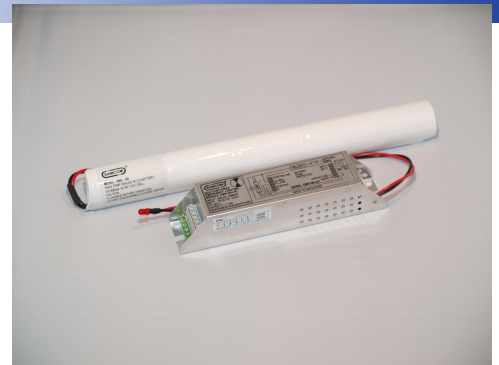
## DIMENSION (mm)



# SELF-CONTAINED EMERGENCY LIGHTING MODULE



.... Is specially designed to be very compact and small in size. With this small size advantage, it can be easily installed into various types of LED luminaries fittings. It is equipped with a Hi-temperature Nickel Cadmium battery pack and a super bright LED charge indicator. The built-in customised proprietary Hybrid IC circuitry enhances reliability and efficiency in operation.



## TECHNICAL CHARACTERISTICS

|                        |                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE          | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                                      |
| BATTERY                | : 6V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others                                                                                               |
| LAMP USED              | : 8W~18W T8 LED Tube (110V ~ 230V)                                                                                                                            |
| RATED PERIOD           | : > 1 hr, 2 hrs, 3 hrs or others                                                                                                                              |
| MODE                   | : Maintained/Non-maintained                                                                                                                                   |
| OPERATION TEMPERATURE: | ta 40° C                                                                                                                                                      |
| POWER CONSUMPTION      | : 3.3W                                                                                                                                                        |
| CHARGE MONITOR         | : Super bright red LED 5mm Ø                                                                                                                                  |
| RECHARGE PERIOD        | : 16 ~ 24 hrs                                                                                                                                                 |
| EMERGENCY LUMINANCE:   | Design range from 20~50%                                                                                                                                      |
| CHARGER                | : Hybrid controlled charger                                                                                                                                   |
| PROTECTION             | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid control circuit |
| CONSTRUCTION           | : Aluminium case                                                                                                                                              |
| TESTING FACILITY       | : Push Button                                                                                                                                                 |
| PACKING                | : One unit per carton                                                                                                                                         |
| CARTON / DIMENSION     | : Double wall corrugated / 330mm(L) x 90mm(W) x 50mm(H)                                                                                                       |
| COMPLIANCE             | : IEC 61347-2-7: 2000                                                                                                                                         |
| WARRANTY               | : 1 Year                                                                                                                                                      |

## EMK 140-LED

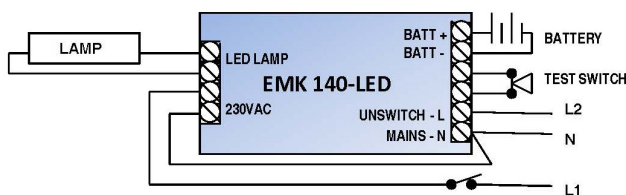
HYBRID  
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Hybrid Charge

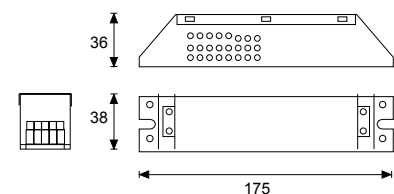


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING MODULE FOR T8  
LED LAMP**

## MARKING AND WIRING DIAGRAM



## DIMENSION (mm)



# SELF-CONTAINED EMERGENCY LIGHTING MODULE



... is specially designed for practicability over and above the SAMCOM Model EMK 17/19/111/113/118 emergency modification kit.

This packed Model with the epoxy powder coated e.g. steel case, packs the SAMCOM Model EMK 17/19/111/113/118 within into a self-contain unit.

Input power cord and output powder cord are provided as integral part of this model thus reducing installation time to the minimum.

It is the alternative model to use where the is no space constrain, e.g. for recess mounting fixture whereby this pack can be conveniently mounted behind the ceiling.



## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                                              |
| BATTERY               | : 4.8V 2.5AH/4.5AH or 6V 2.5AH/4.5AH High temp rated Nickel Cadmium cells 6V 4.5AH Sealed Lead Acid or others                                         |
| LAMP USED             | : 1 x PLC lamp, 2 x PLC lamp (13/18W - 4 Pins) or others                                                                                              |
| RATED PERIOD          | : 1 hr, 2 hrs ± 10% or others                                                                                                                         |
| MODE                  | : Maintained/Non-Maintained                                                                                                                           |
| OPERATION TEMPERATURE | : ta 40° C                                                                                                                                            |
| POWER CONSUMPTION     | : 20.8W (PLC 13) 28W (PLC 18)                                                                                                                         |
| CHARGE MONITOR        | : Super bright green LED 5mm Ø                                                                                                                        |
| RECHARGE PERIOD       | : 16 ~ 24 hrs                                                                                                                                         |
| EMERGENCY LUMINANCE   | : 330 lm (PLC 13) 480 lm (PLC 18)                                                                                                                     |
| ELECTROMAGNETIC FIELD | : Design range from 30 ~ 50%                                                                                                                          |
| CHARGER               | : Hybrid controlled charger                                                                                                                           |
| PROTECTION            | : Low volt cut-off to prevent battery over discharge<br>Incoming AC fuse and Battery DC fuse<br>Tropical climate protection coating on hybrid circuit |
| CONSTRUCTION          | : Electrode galvanised sheet steelcase                                                                                                                |
| DESMENSION            | : 375mm(L) x 85mm(W) x 50mm(H)                                                                                                                        |
| PACKING               | : One unit per carton                                                                                                                                 |
| CARTON / DIMENSION    | : Double wall corrugated / 400mm(L) x 100mm(W) x 60mm(H)                                                                                              |
| COMPLIANCE            | : SS263 : Part 2, 1998/A2: 2008, SS563-2: 2010/A1: 2013                                                                                               |
| WARRANTY              | : 1 Year                                                                                                                                              |

## EMP 113/118

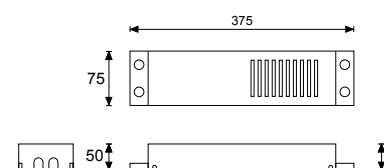


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING MODULE FOR PL LAMP**

## ORDERING INFORMATION

| MODEL            | LAMP USED        | BATTERY    | DURATION    |
|------------------|------------------|------------|-------------|
| EMP 113LA-2P     | 1 x 13W (2 pins) | 6V 4.5AH   | 2 hrs ± 10% |
| EMP 113ND-2P-L4D | 1 x 13W (2 pins) | 4.8V 4.5AH | 2 hrs ± 10% |
| EMP 113ND-4P-L4C | 1 x 13W (4 pins) | 4.8V 2.5AH | 2 hrs ± 10% |
| EMP 113ND-4P-L4D | 1 x 13W (4 pins) | 4.8V 4.5AH | 3 hrs ± 10% |
| EMP 118LA-2P     | 1 x 18W (2 pins) | 6V 4.5AH   | 2 hrs ± 10% |
| EMP 118ND-2P-L5D | 1 x 18W (2 pins) | 6V 4.5AH   | 2 hrs ± 10% |
| EMP 118ND-4P-L4C | 1 x 18W (4 pins) | 4.8V 2.5AH | 2 hrs ± 10% |
| EMP 118ND-4P-L4D | 1 x 18W (4 pins) | 4.8V 4.5AH | 3 hrs ± 10% |

## DIMENSION (mm)



Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-040

... is designed for complimentary lighting fixture, without emergency control gear. For general warning sign.

## TECHNICAL CHARACTERISTICS

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| INPUT VOLTAGE          | : 24Vdc ±20%                                                                    |
| INPUT CURRENT          | : < 0.08A                                                                       |
| LAMP USED              | : 2 x 3W Incandescent bulb, 2 x 1.8W T5 White LED or others                     |
| MODE                   | : Electronic Flashing (EFL 2412-WP & EFL 2412-LED-T5-WP)                        |
| OPERATION TEMPERATURE: | ta 40 °C                                                                        |
| POWER CONSUMPTION      | : < 6W for Incandescent, 3.24W for LED T5                                       |
| CONSTRUCTION           | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole |
| DIMENSION              | : 370mm(L) x 80mm(W) x 165mm(H)                                                 |
| WEIGHT                 | : 1.70kg (Net) / 1.80kg (Gross)                                                 |
| PACKING                | : One unit per carton                                                           |
| CARTON / DIMENSION     | : Double wall corrugated / 390mm(L) x 100mm(W) x 180mm(H)                       |



**EFL 2412**  
**EFL 2412-LED-T5**

**WARNING SIGN**  
(with Electronic Flashing Circuit)

**BL 224**  
**BL 2430-LED-T5**

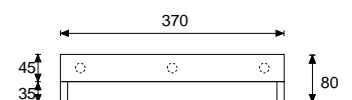
**WARNING SIGN**

**IP20**

## ORDERING INFORMATION

| MODEL           | LAMP USED             | MODE                |
|-----------------|-----------------------|---------------------|
| BL 2430-LED-T5  | 2 x 1.8W T5 White LED | Non-Flashing        |
| EFL 2412-LED-T5 | 2 x 1.8W T5 White LED | Electronic Flashing |
| BL 224          | 2 x 3W Incandescent   | Non-Flashing        |
| EFL 2412        | 2 x 3W Incandescent   | Electronic Flashing |

## DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



... is designed for complimentary lighting fixture, without emergency control gear. For general warning sign.

## TECHNICAL CHARACTERISTICS

|                        |                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE          | : 24Vdc ±20%                                                                                                            |
| INPUT CURRENT          | : < 0.08A                                                                                                               |
| LAMP USED              | : 2 x 3W Incandescent bulb, 2 x 1.8W T5 White LED or others                                                             |
| MODE                   | : Electronic Flashing (EFL 2412-WP & EFL 2412-LED-T5-WP)                                                                |
| OPERATION TEMPERATURE: | ta 40° C                                                                                                                |
| POWER CONSUMPTION      | : < 6W for Incandescent, 3.24W for LED T5                                                                               |
| CONSTRUCTION           | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole<br>Fire Retardant Acrylic Opal diffuser |
| DIMENSION              | : 370mm(L) x 100mm(W) x 185mm(H)                                                                                        |
| WEIGHT                 | : 1.35kg (Net) / 1.50kg (Gross)                                                                                         |
| PACKING                | : One unit per carton                                                                                                   |
| CARTON / DIMENSION     | : Double wall corrugated / 400mm(L) x 110mm(W) x 210mm(H)                                                               |



## EFL 2412-WP EFL 2412-LED-T5-WP

WARNING SIGN  
(with Electronic Flashing Circuit)

## BL 224-WP BL 2430-LED-T5-WP

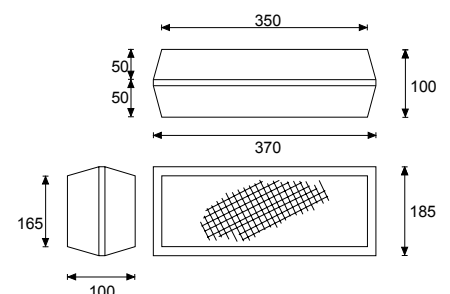
WARNING SIGN

IP65

## ORDERING INFORMATION

| MODEL              | LAMP USED             | MODE                |
|--------------------|-----------------------|---------------------|
| BL 2430-LED-T5-WP  | 2 x 1.8W T5 White LED | Non-Flashing        |
| EFL 2412-LED-T5-WP | 2 x 1.8W T5 White LED | Electronic Flashing |
| BL 224-WP          | 2 x 3W Incandescent   | Non-Flashing        |
| EFL 2412-WP        | 2 x 3W Incandescent   | Electronic Flashing |

## DIMENSION (mm)



(1) Other signs are available upon request  
(2) Colours are available upon request

# BOX / SLIM SIGNAGE



... is designed for complimentary lighting fixture, without emergency control gear. For general luminated sign.



## BL 18

IP 20

BOX LIGHT



## SL 18

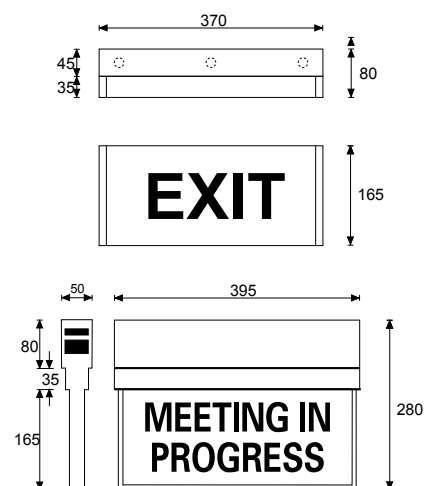
IP 20

SLIM LIGHT

## TECHNICAL CHARACTERISTICS

|                       |                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| INPUT VOLTAGE         | : 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others                                                                             |
| LAMP USED             | : Fluorescent tube 1 x 8W, 2 x 8W daylight 30cm<br>Incandescent bulb 2 x 5W/6W, 15W or others                                        |
| OPERATION TEMPERATURE | : ta 40 °C                                                                                                                           |
| POWER CONSUMPTION     | : < 8/16/30W                                                                                                                         |
| CONSTRUCTION          | : Electrode galvanised sheet steel with epoxy powder coating<br>20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser (BL18 & SL 18) |
| DIMENSION             | : BL 18 - 370mm(L) x 80mm(W) x 165mm(H)<br>SL 18 - 395mm(L) x 50mm(W) x 280mm(H)                                                     |
| CARTON / DIMENSION    | : BL 18 - 390mm(L) x 100mm(W) x 180mm(H)<br>SL 18 - 430mm(L) x 70mm(W) x 290mm(H)                                                    |

## DIMENSION (mm)



## ORDERING INFORMATION

| MODEL  | LAMP USED                 | INPUT VOLTAGE | TYPE | GROSS WEIGHT |
|--------|---------------------------|---------------|------|--------------|
| BL 18  | 1 x 8W Fluorescent Tube   | 230Vac        | BOX  | 1.75 kg      |
| BL 215 | 2 x 15W Incandescent Blub | 230Vac        | BOX  | 1.90 kg      |
| SL 18  | 1 x 8W Fluorescent Tube   | 230Vac        | SLIM | 2.20 kg      |

(1) Other signs are available upon request  
(2) Colours are available upon request

Note: Due to continuous development and improvement, our company reserves the right to change specification without notice.



ISO9001:2015-SAM-CAT-2018-043

# RECOMMENDED MAINTENANCE/ TESTING PROCEDURES



## Half-yearly procedures

Observe that the self-contained emergency, luminaires and EXIT signs function satisfactorily. Replace any defective lamp.

## Annually procedures

- (a) Operate the self-contained emergency luminaires and exit signs from the battery supply until extinguished due to operation of the automatic low voltage cut-off device. Investigate and repair or replace any luminaire which fails to operate satisfactorily.
- (b) Clean all light-emitting and/or reflecting surfaces.
- (c) Replace any defective lamp.

## Battery Replacement

The replacement of batteries in self-contained emergency luminaires and exit signs shall be carried out in accordance with the following requirements:

- (a) When more than one battery is utilized the complete set of batteries shall be replaced;
- (b) Batteries removed from one luminaire shall not be used as replacements in another luminaire;
- (c) Replacement batteries must all be of the same type as originally installed or equivalent.

## Definitions

There are three main types of emergency lighting in the range:

**Non-maintained** : Luminaires containing one or more lamps which operate from the emergency supply only upon failure of the normal AC supply.

**Maintained** : Luminaires containing one or more lamps which operate from the normal AC supply or from the emergency supply at all times.

**Sustained/Combined** : Luminaires containing two or more lamps, at least one of which is energised from the emergency supply and the remainder from the normal AC supply.

## Luminaire

A general term for a complete lighting unit. It includes the housing, the reflector, lens and lamps.

## Luminance (cd/m<sup>2</sup>)

The light emitted from a unit area in a specific direction is called 'luminance' and is measured in candelas per square centimetre, which indicates how bright an object actually appears, and this may be an illuminated area or the area of a source of light. The luminance of a surface determines how bright that surface actually appears. One candela per square.

## Lux

The unit of illuminance (illumination). It is the unit of measurement for the incident light arriving at a surface.

## Laws of Illumination

Inverse square law  $E = \frac{I}{d^2}$

where E is illuminance in lux, I is luminous intensity in candelas, and d is distance of source to surface being illuminated.

|    |    |    |    |    |
|----|----|----|----|----|
| 00 | 15 | 30 | 45 | 47 |
| 01 | 16 | 31 | 46 | 48 |
| 02 | 17 | 32 | 47 | 49 |
| 03 | 18 | 33 | 48 | 50 |
| 04 | 19 | 34 | 49 | 51 |
| 05 | 20 | 35 | 50 | 52 |
| 06 | 21 | 36 | 51 | 53 |
| 07 | 22 | 37 | 52 | 54 |
| 08 | 23 | 38 | 53 | 55 |
| 09 | 24 | 39 | 54 | 56 |
| 10 | 25 | 40 | 55 | 57 |
| 11 | 26 | 41 | 56 | 58 |
| 12 | 27 | 42 | 57 | 59 |
| 13 | 28 | 43 | 58 | 60 |
| 14 | 29 | 44 | 59 | 61 |