



# 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

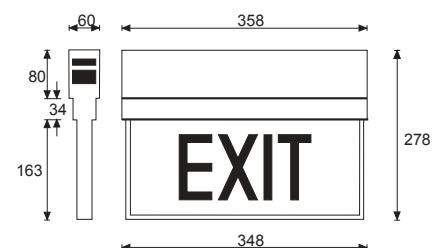


## SLED-X1



**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.



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.



## SLM 18



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

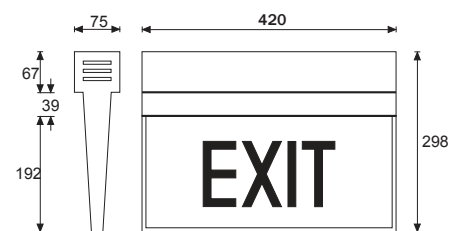
### TECHNICAL CHARACTERISTICS

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

### DIMENSION (mm)



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



# 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 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	: 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)

## 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



## SLM 18T

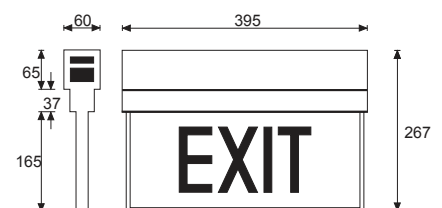


IP 20



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

## DIMENSION (mm)



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





# SELF-CONTAINED WHITE LED EMERGENCY EXIT LIGHT

... is designed to be slim and lightweight, 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 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 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	: 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

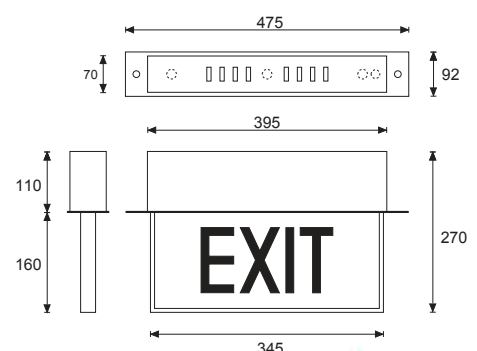


**HYBRID IC CONTROLLED  
SELF-CONTAINED EMERGENCY LIGHTING  
SUPER BRIGHT SMT NICHIA WHITE LED  
LUMINAIRE (RECESSED MOUNTING)**

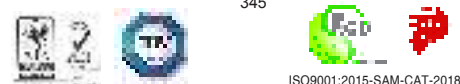
## ORDERING INFORMATION

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



# 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 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	: 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

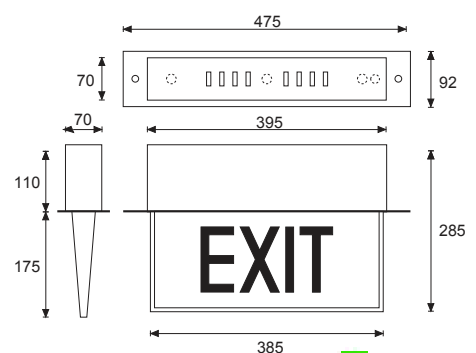


*HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE (RECESS MOUNTING)*

### 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.



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 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	: 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

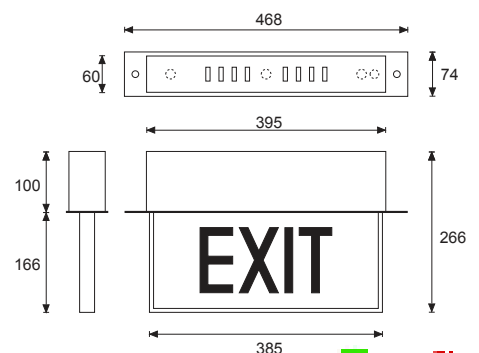


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE (RECESS MOUNTING)**

## 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



# 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 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	: 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

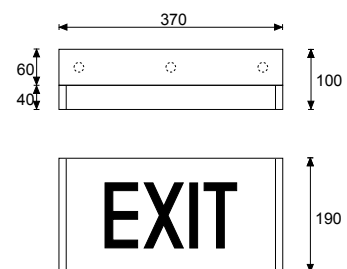


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE**

## 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

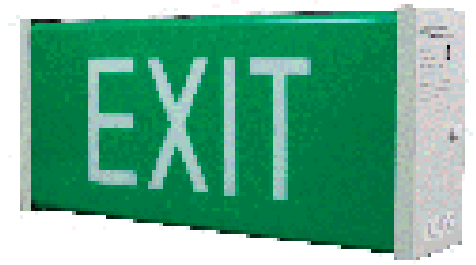




# SELF-CONTAINED EMERGENCY EXIT LIGHT

.. 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	: 12.6m gause@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	: 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

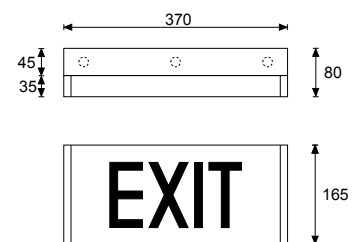


*HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE*

## 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.



... 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 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	: 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

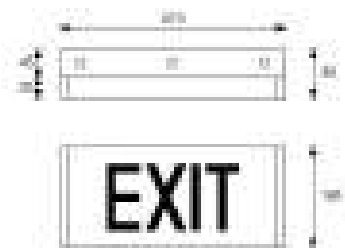


**HYBRID IC CONTROLLED  
SELF-CONTAINED EMERGENCY LIGHTING  
SUPER BRIGHT T5 WHITE LED LUMINAIRE**

## 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

# 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 Incoming AC fuse and Battery DC fuse 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

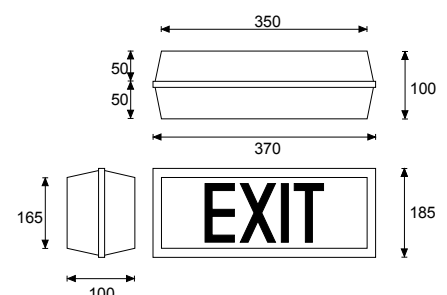


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING FLUORESCENT  
LUMINAIRE**

### 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 Incoming AC fuse and Battery DC fuse 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 SSIEC50598: Part 1: 2016
WARRANTY	: 1 Year

## ELW 115-LED-T5

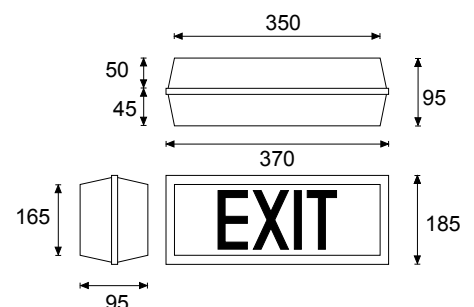


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY EXIT LIGHTING  
SUPER BRIGHT SMT NICHIA WHITE LED  
LUMINAIRE**

## ORDERING INFORMATION

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





# 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.

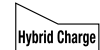


## TECHNICAL CHARACTERISTICS

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 Incoming AC fuse and Battery DC fuse 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

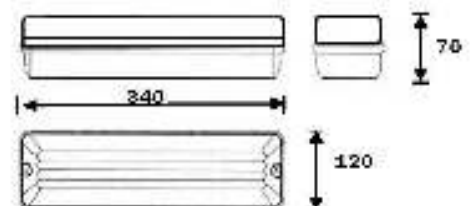


*HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING FLUORESCENT  
LUMINAIRE*

## ORDERING INFORMATION

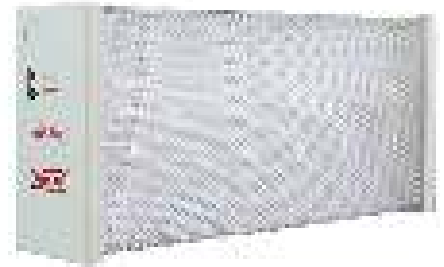
MODEL	LAMP USED	RATED PERIOD
EEP 18P-NM-2	1 x 8W	2 hrs ± 10%
EEP 18P-NM-3	1 x 8W	3 hrs ± 10%
EEP 28P-NM-2	2 x 8W	2 hrs ± 10%
EEP 28P-NM-3	2 x 8W	3 hrs ± 10%

## DIMENSION (mm)



... 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 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	: 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  
WWWWWW

Hybrid Charge

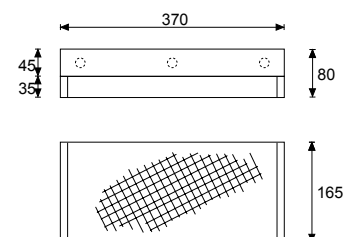


*HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING FLUORESCENT  
LUMINAIRE*

## 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)

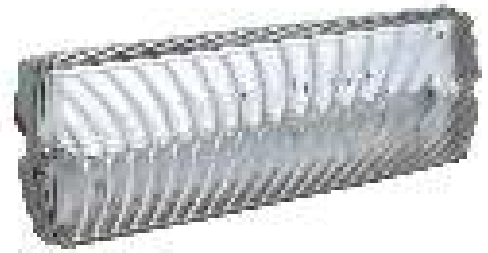




# SELF-CONTAINED LED EMERGENCY LIGHTING

... 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.

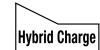


## TECHNICAL CHARACTERISTICS

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 Incoming AC fuse and Battery DC fuse 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

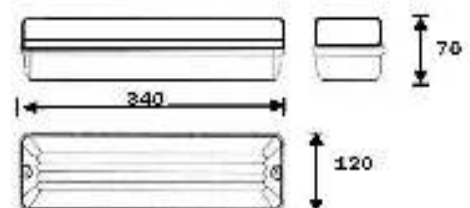


**HYBRID IC CONTROLLED  
SELF-CONTAINED EMERGENCY LIGHTING  
SUPER BRIGHT SMT WHITE LED LUMINAIRE**

## 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 Incoming AC fuse and Battery DC fuse 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

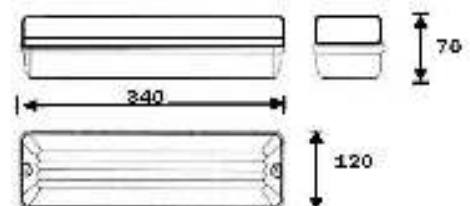


*HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LIGHTING FLUORESCENT LUMINAIRE*

## 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)

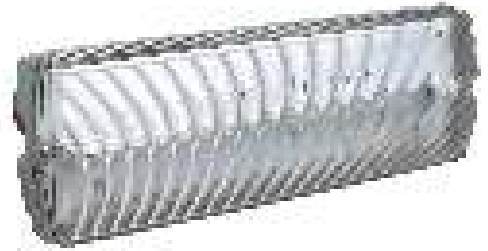




# SELF-CONTAINED WHITE LED EMERGENCY LIGHTING

... 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 gause @ 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	: 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 SSIEC60598: Part 1: 2016
WARRANTY	: 1 Year

## EEW 115P-LED-T5

IP 65

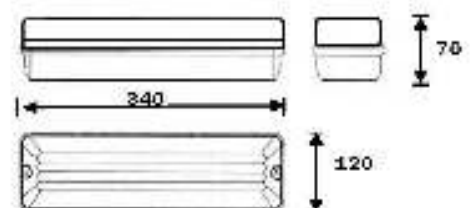


**HYBRID IC CONTROLLED  
SELF-CONTAINED EMERGENCY LIGHTING  
SUPER BRIGHT SMT WHITE LED LUMINAIRE**

## 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	: ta25° 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 Incoming AC fuse, Circuit Protection Fuse and Battery DC fuse 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 SSIEC60598: Part 1: 2016
WARRANTY	: 1 Year

IP 20

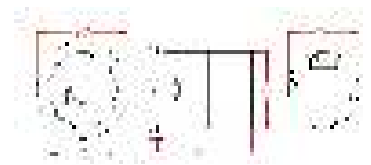


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LED DOWN LIGHT  
SUPER BRIGHT 1W SMT NICHIA WHITE  
LED LAMP LOW POWER CONSUMPTION**

### ORDERING INFORMATION

MODEL	LAMP USED	BATTERY CAPACITY	DURATION	GROSS WEIGHT
EHL 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 Incoming AC fuse, Circuit Protection Fuse and Battery DC fuse 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 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

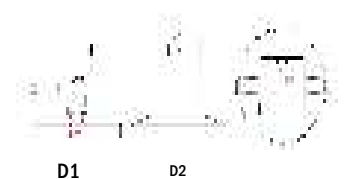
## EHL 101M-LED

IP 20



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

## DIMENSION





# 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 Incoming AC fuse, Circuit Protection Fuse and Battery DC fuse 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 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 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 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
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



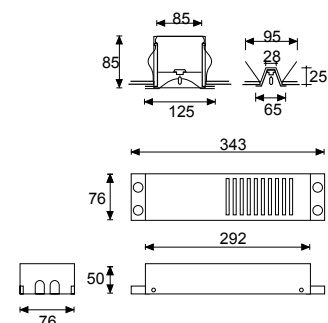
**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY HALOGEN DOWN LIGHT (RECESS MOUNTING)**



### 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.





# 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 Incoming AC fuse, Circuit Protection Fuse and Battery DC fuse 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 SSIEC60598: Part 1: 2016
WARRANTY	: 1 Year

## EHS 109-LED-SQ

IP 20

HYBRID  
www.samcom.com

Hybrid Charge

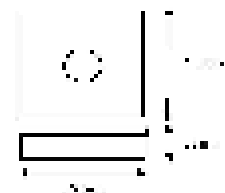


*HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY SQUARE LED DOWN LIGHT SUPER  
BRIGHT 1W SMT NICHIA WHITE LED LAMP LOW  
POWER CONSUMPTION (SURFACE MOUNTING)*

## 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)



... 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 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 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
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  
wwwwwww

Hybrid Charge

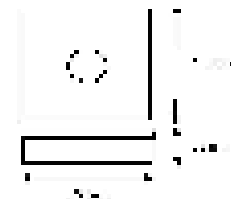


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING  
SQUARE HALOGEN DOWN LIGHT (SURFACE  
MOUNTING)**

## 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)





# 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 gauss@0.1m
CHARGER	: Hybrid controlled charger
PROTECTION	: Low volt cut-off to prevent battery over discharge Incoming AC fuse, Circuit Protection Fuse and Battery DC fuse 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 SSIEC60598: Part 1: 2016
WARRANTY	: 1 Year

## EHS 109-LED-CLD

IP 20

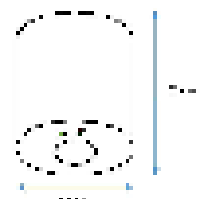


*HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY SQUARE LED DOWN LIGHT SUPER BRIGHT 1W SMT NICHIA WHITE LED LAMP LOW POWER CONSUMPTION (SURFACE MOUNTING)*

## 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 Incoming AC fuse and Battery DC fuse Tropical climate protection coating on hybrid control circuit
CONSTRUCTION	: Mounted Fire Retardant ABS housing 20mm Ø K/O hole 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

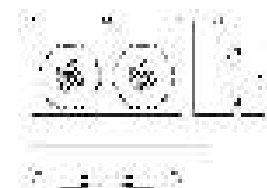


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LED TWIN LIGHT**  
**SUPER BRIGHT 1W SMT NICHIA WHITE LED LAMP LOW POWER CONSUMPTION**

## 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 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 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 SSIEC60598: Part 1: 2016
WARRANTY	: 1 Year

## ESS 108 - LED

IP 20

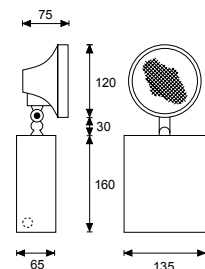


**HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY LED SINGLE LIGHT**  
**SUPER BRIGHT SMT NICHIA WHITE LED LAMP LOW POWER CONSUMPTION**

## 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)





# 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 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 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 SSIEC60598: Part 1: 2016
WARRANTY	: 1 Year

## ESL 108-LED

IP 20

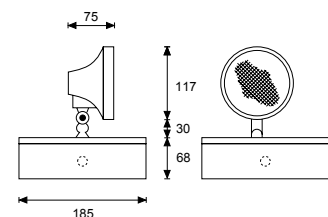


**HYBRID IC CONTROLLED SELF-CONTAINED LED EMERGENCY LIGHTING SURFACE/RECESS SINGLE LAMP**

## 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 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 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 SSIEC60598: Part 1: 2016
WARRANTY	: 1 Year

## ETL 208 - LED

IP20

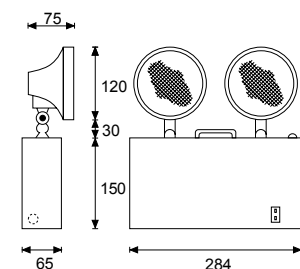


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LED TWIN LIGHT  
SUPER BRIGHT 1W NICHIA WHITE LED  
LAMP LOW POWER CONSUMPTION**

## 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**

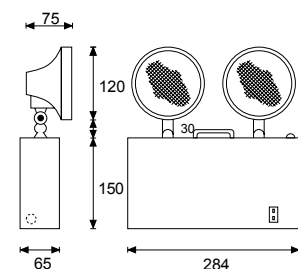
### TECHNICAL CHARACTERISTICS

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 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 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.
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)





# 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 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 Incoming AC fuse and Battery DC fuse Tropical climate protection coating on hybrid control circuit
CONSTRUCTION	: Moulded Fire Retardant ABS Housing 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 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



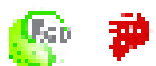
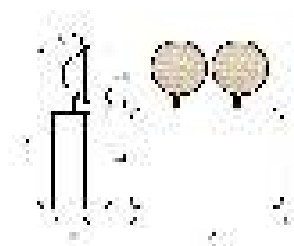
## ETL 208-LED-WP

IP 65



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

## DIMENSION (mm)

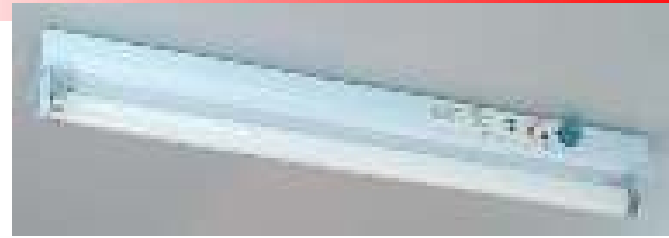




# SELF-CONTAINED LED EMERGENCY LIGHTING

... 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.

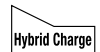


## EML 120-LED-BATTEN

### 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 Incoming AC fuse and Battery DC fuse 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





# 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



### 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 Incoming AC fuse and Battery DC fuse 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





# 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 Incoming AC fuse and Battery DC fuse 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

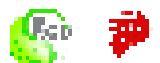


*HYBRID IC CONTROLLED SELF-CONTAINED EMERGENCY DIAKON LIGHTING LED LAMP*

## 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.





# 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 Incoming AC fuse and Battery DC fuse 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

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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



... 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 Incoming AC fuse and Battery DC fuse 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

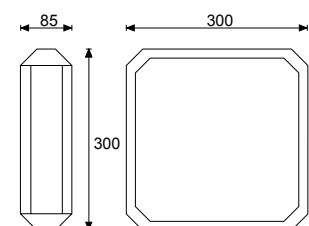


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING PL LAMP**

## 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 Incoming AC fuse and Battery DC fuse 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 SSIEC60598: Part 1: 2016
WARRANTY	: 1 Year

## EPL 116-LED-SQ

IP 54

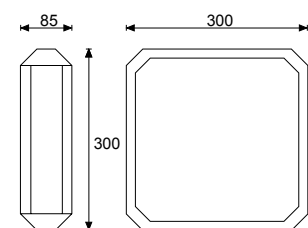


*HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING LED LAMP*

## 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 Incoming AC fuse and Battery DC fuse 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

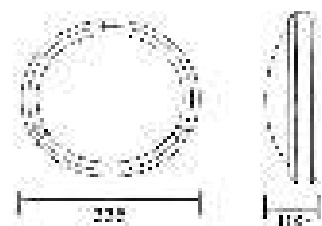


HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING PL LAMP

## 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

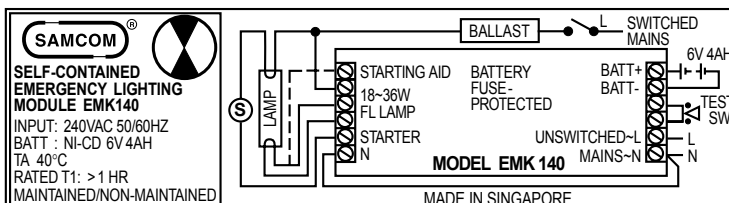
INPUT VOLTAGE	: 230Vac 50/60Hz ± 10% or 115Vac 50/60Hz ± 10% or others
BATTERY	: 4.8V 2.5AH/4.5AH or 6V 2.5AH/4.5AH or 7.2V 2.5AH/4.5AH High temp rated Nickel Cadmium cells or others
LAMP USED	: FL tube 14W~20W,28W~40W,58W~65W, 4 pins PLC,PLL,2D or others
RATED PERIOD	: 1 hr, 2 hrs ± 10% or others
MODE	: 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 Incoming AC fuse and Battery DC fuse 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

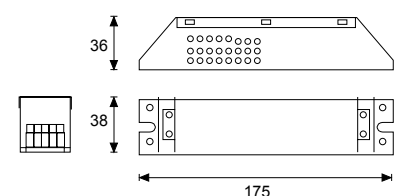


HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING MODULE FOR  
FLUORESCENT LAMP

## 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 Incoming AC fuse and Battery DC fuse 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

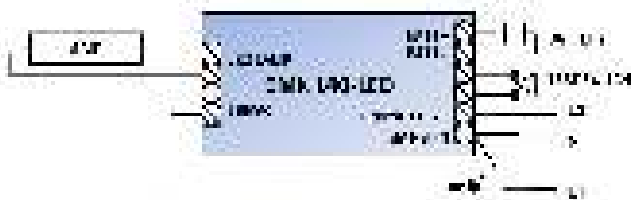
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Hybrid Charge

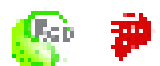
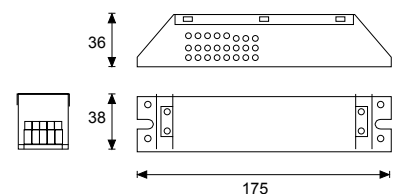


*HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING MODULE FOR T8  
LED LAMP*

## 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 Incoming AC fuse and Battery DC fuse 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

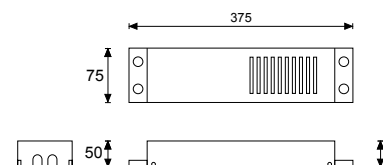


**HYBRID IC CONTROLLED SELF-CONTAINED  
EMERGENCY LIGHTING MODULE FOR PL LAMP**

## 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)



... 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 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

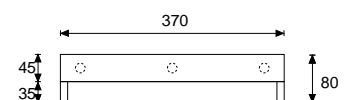
WARNING SIGN

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)

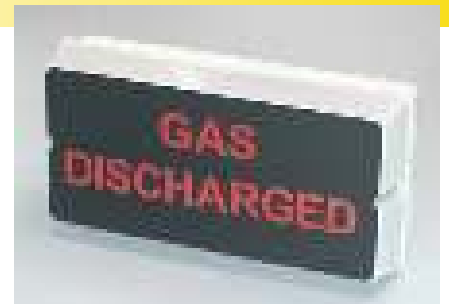


(1) Other signs are available upon request  
(2) Colours are available upon request

... 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 20mm Ø K/O hole 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

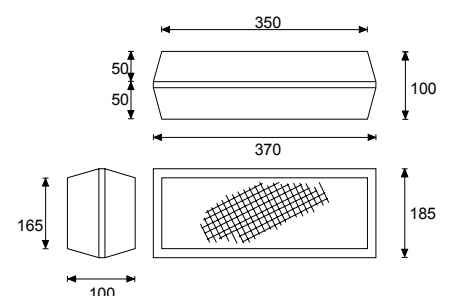
WARNING SIGN

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

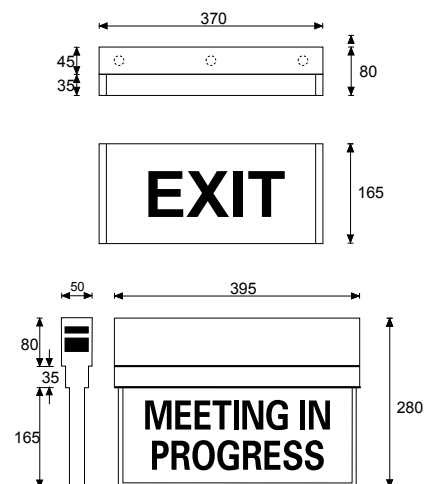
IP 20

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 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 20mm Ø K/O hole, Fire Retardant Acrylic Opal diffuser (BL18 & SL 18)
DIMENSION	: BL 18 - 370mm(L) x 80mm(W) x 165mm(H) SL 18 - 395mm(L) x 50mm(W) x 280mm(H)
CARTON / DIMENSION	: BL 18 - 390mm(L) x 100mm(W) x 180mm(H) 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.



# 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.



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30

KELUAR

45



47



01



16



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◀KELUAR

46



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02



17



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KELUAR▶

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03



18



33

◀KELUAR▶

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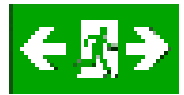
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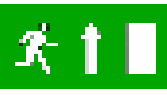
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