



Pan American
Professional Lighting Manufacturer



S SERIES (Zone 1/2/21/22)

HAZARDOUS LOCATION LED LUMINAIRE

Datasheet-2026-07 EN





Bracket Mounting



Emergency Driver

Product Description

The S Series LED luminaire is designed for installations in hazardous area with presence of flammable gases or combustible dusts as defined by ATEX /IECEX for Zone 1/21 applications. They can be used in locations where moisture, dirt, dust corrosion and vibration may be present, or areas where wind, water, snow or high ambient can be expected.

Compliance

Explosion-Proof Grade: Ex db eb IIC T6/T5 Gb

IP66
IK08
3G Vibration

Features

- Compact and rugged structure, easy installation
- Various installation ways for different applications
- Great impact resistance with IK08/IK10 certified
- Copper-free aluminum housing, great corrosion resistance and cooling performance
- Tempered glass for high heat resistance
- Diffuser available with flat glass or convex glass options.
- Flame-proof type & flame-proof and increased safe type available

Application

- Offshore Environments
- Loading Docks Platforms
- Paper Mills
- Wastewater Treatment Plants
- Chemical Processing Facility
- Petrochemical Processing Facility
- Metallurgical Industry
- Coal Mine
- Power Plants
- Heavy Industrials Storage Facility
- Food and Alcohol industry

Warranty

5-Year Standard Warranty

LED Lumen Maintenance: L70 > 150,000 Operation Hours@55°C

Technical Parameter

• Electrical

Specification	EX-60WS1eN50D120	EX-100WS1eN50D60	EX-100WS1eN50D120
Rated Power	60W	100W	100W
Input Voltage	AC230V (50/60 Hz)		
Power Factor	0.95		
Driver	XLG100		
AC Terminal Block	PA10HDS (6 Pin, 1.0-2.5mm ² /2.5-4.0mm ²)		

• Optical

Specification	EX-60WS1eN50D120	EX-100WS1eN50D60	EX-100WS1eN50D120
Lumen Output	8,400lm±5%	14,000lm±5%	14,000lm±5%
Distribution Curve	120°	60°	120°
CCT	5000K		
CRI	≥70		

• Environmental

Specification	Ambient Temperature	Temperature Class	Max. Input Power
EX-* S1e*****	-40°C~+55°C	T6	70
	-40°C~+55°C	T5	100

• Mechanical

Specification	EX-60WS1eN50D120	EX-100WS1eN50D60	EX-100WS1eN50D120
Housing Material	Aluminum Alloy ADC12		
Weight	11.6 KG (Including Bracket)		
Color	RAL 7040		
Diffuser	Flat Glass (Tempered Glass)		
Protection	IP66/IK08		
Mounting	Bracket Mounting		

Technical Parameter

• Electrical

Specification	EX-60WS2eN50D120E	EX-100WS2eN50D60E	EX-100WS2eN50D120E
Rated Power	60W	100W	100W
Input Voltage	AC230V (50/60 Hz)		
Power Factor	0.95		
Driver	XLG100		
Battery	LifePo4 18650 12.8V 4800mAh (4S3P)		
Emergency Time	90 mins	90 mins	90 mins
AC Terminal Block	PA10HDS (6 Pin, 1.0-2.5mm ² /2.5-4.0mm ²)		

• Optical

Specification	EX-60WS2eN50D120E	EX-100WS2eN50D60E	EX-100WS2eN50D120E
Lumen Output	7,800lm±5%	13,000lm±5%	13,000lm±5%
Distribution Curve	120°	60°	120°
CCT	5000K		
CRI	≥70		

• Environmental

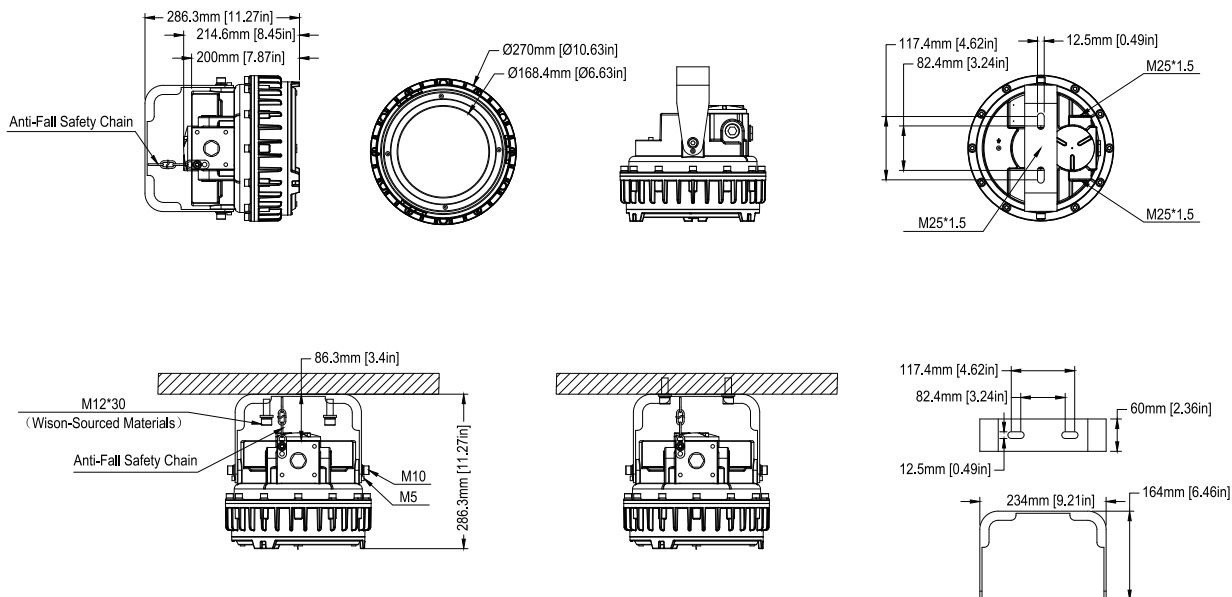
Specification	Ambient Temperature	Temperature Class	Max. Input Power
EX-* S2e*****E***	-20°C~+50°C	T6	70
	-20°C~+40°C	T6	120

• Mechanical

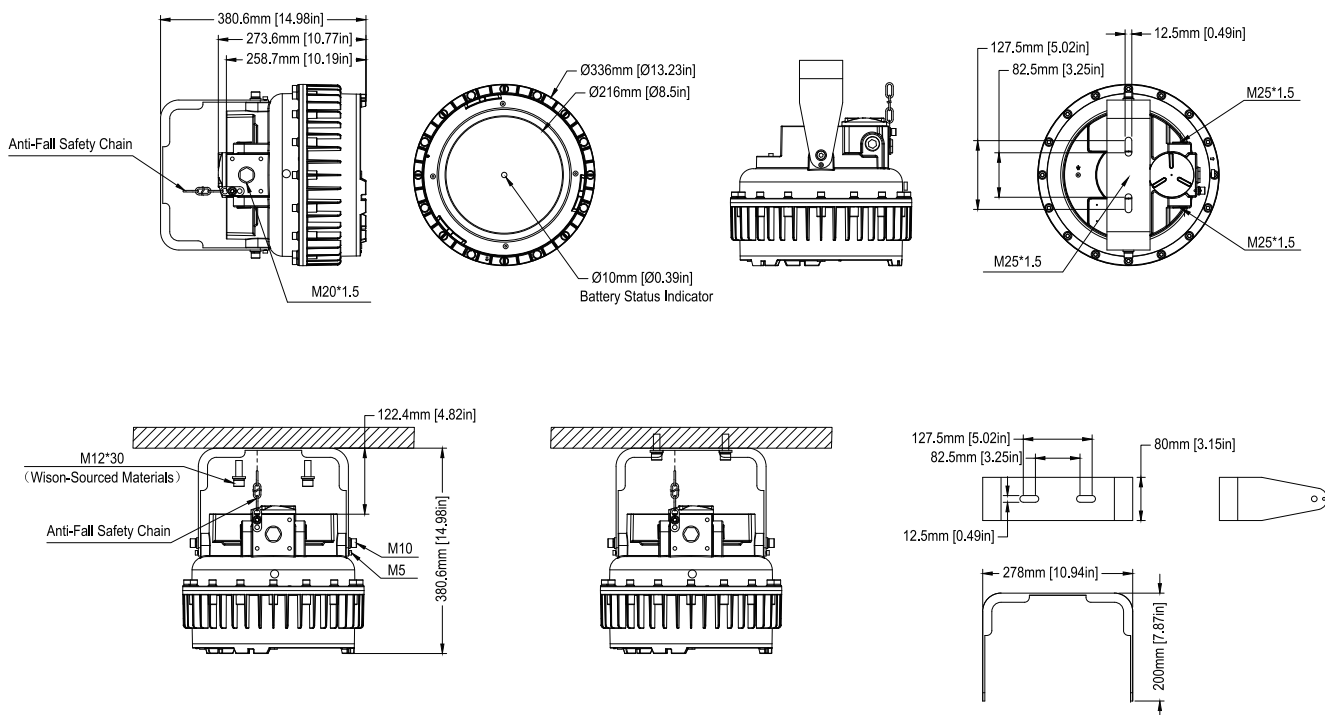
Specification	EX-60WS2eN50D120E	EX-100WS2eN50D60E	EX-100WS2eN50D120E
Housing Material	Aluminum Alloy ADC12		
Weight	20.7 KG (Including Bracket)		
Color	RAL 7040		
Diffuser	Flat Glass (Tempered Glass)		
Protection	IP66/IK08		
Mounting	Bracket Mounting		

Product Dimensions Unit:mm[inch]

S1e



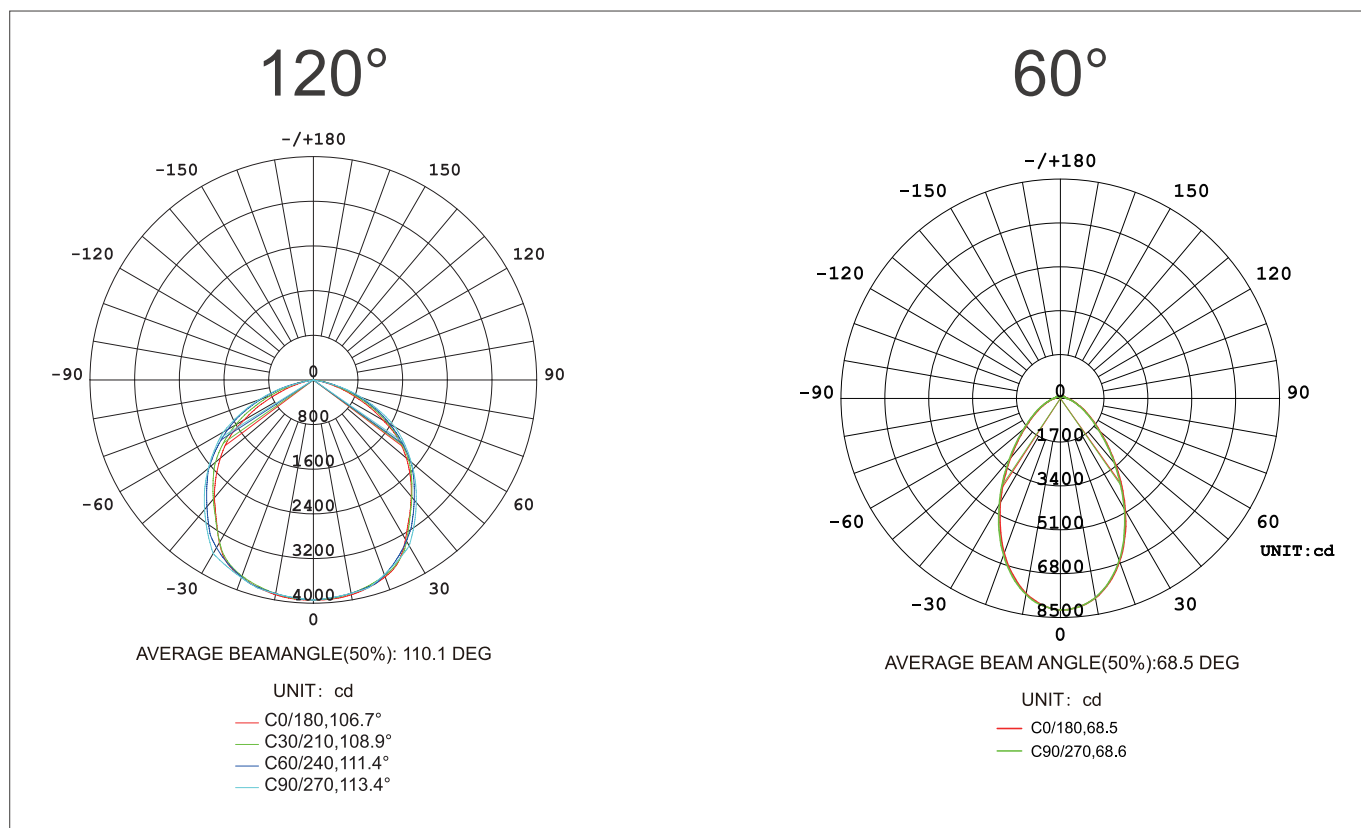
S2e



• Packing Information

Product Type	Model	Weight	Package Dimensions (LxWxH)
Flame-proof and Increased Safe Type	S1e	11.6KG with U-bracket	470x420x320mm/ 16.54x18.50x12.60inch
Flame-proof and Increased Safe Type (with Emergency Battery)	S2e	20.7KG with U-bracket	500x470x400mm/ 19.69x18.5x15.75inch

Photometric



Mounting Methods

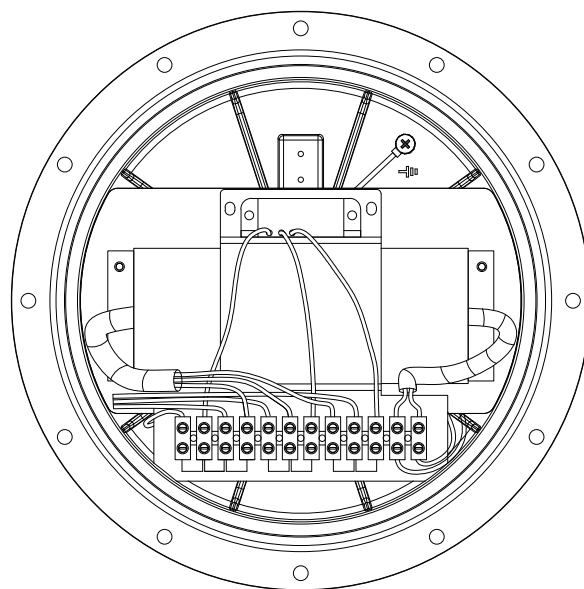
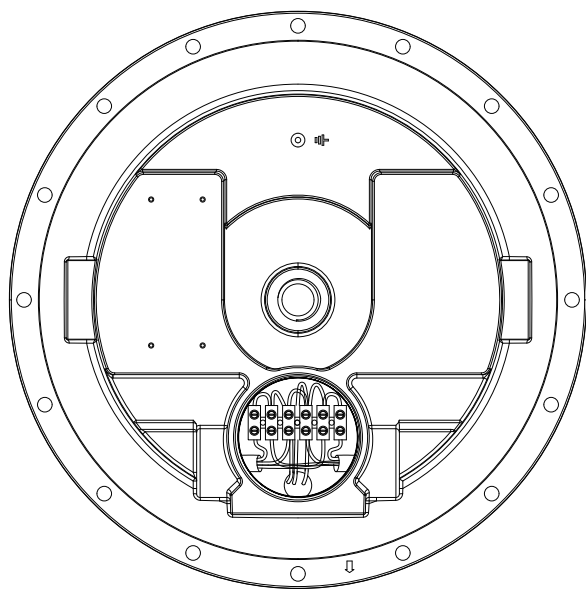
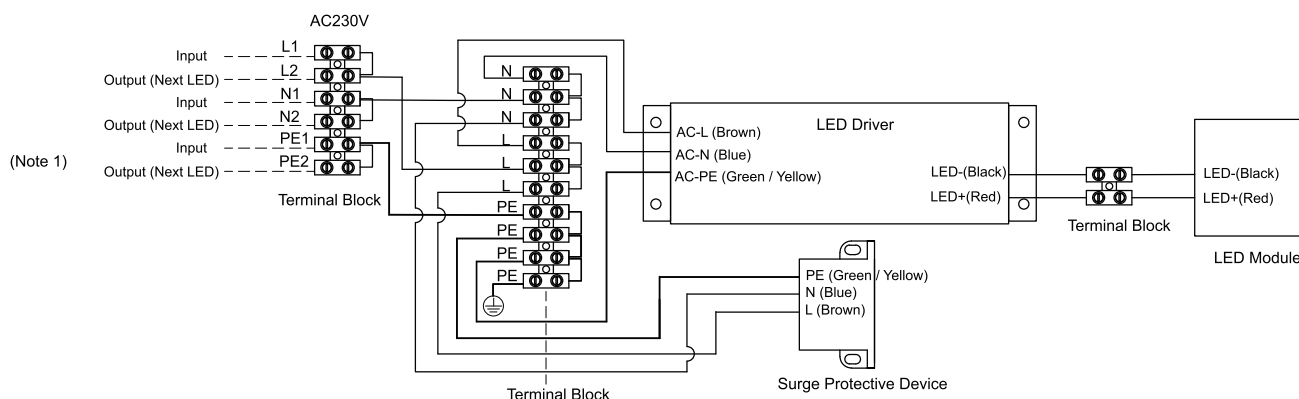


Bracket Mounting

Circuit Connection

Steps of Circuit Connection:

1. Ensure all the power is turned off.
2. Open the junction box
3. Install M25x1.5 trade side conduit to M25x1.5 adaptor on the luminaire.
4. Connect the L, N, G from branch to the slots of terminal block, according to the marking on terminal block.
5. Close the power connecting cavity.

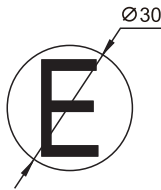


Emergency

The emergency function is limited to the EX-S2 model only.

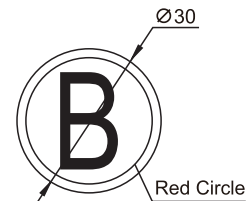
Input Rating	Input Voltage: 100~240VAC, 50/60Hz THD: $\leq 20\%$ PF: ≥ 0.9 Input Current: 100mA Max.
Input Power	7W Max.
Output Rating	Output Voltage: DC25-230V
Emergency Power	30W
Battery	LifePo4 18650 12.8V 4800mAh (4S3P)
Emergency Time	1.5 hours
Recharge Time	24 hours
Discharge Time	1.5 hours
Battery Life Expectancy	3 years
Ambient Temperature	0°C to +45°C

*E-marked luminaires are emergency lights, and this marking shall be displayed on luminaires.



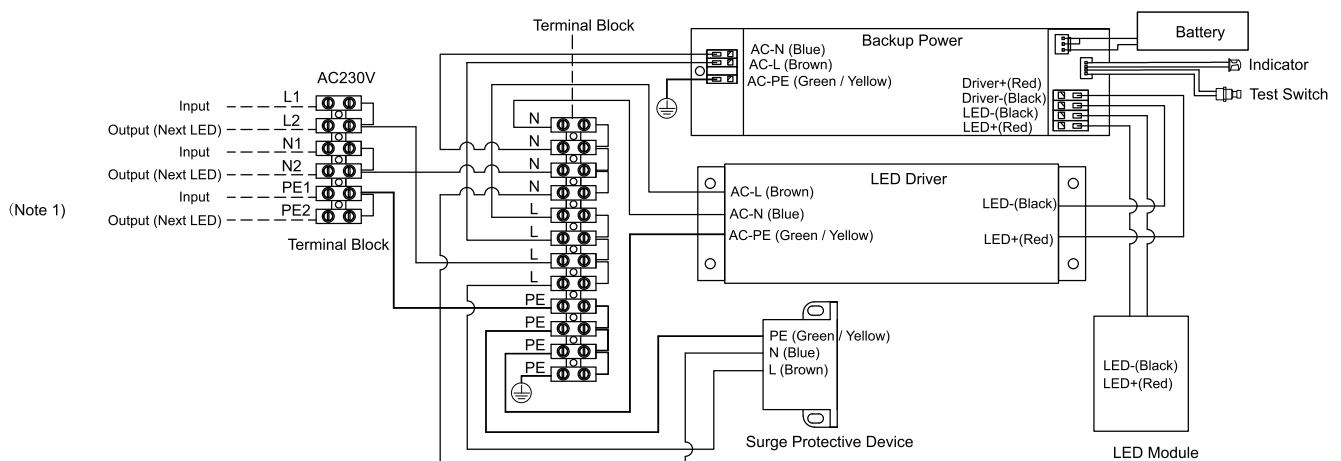
General Emergency Sign

*E-marked luminaires are emergency battery lights, and this marking shall be displayed on luminaires.



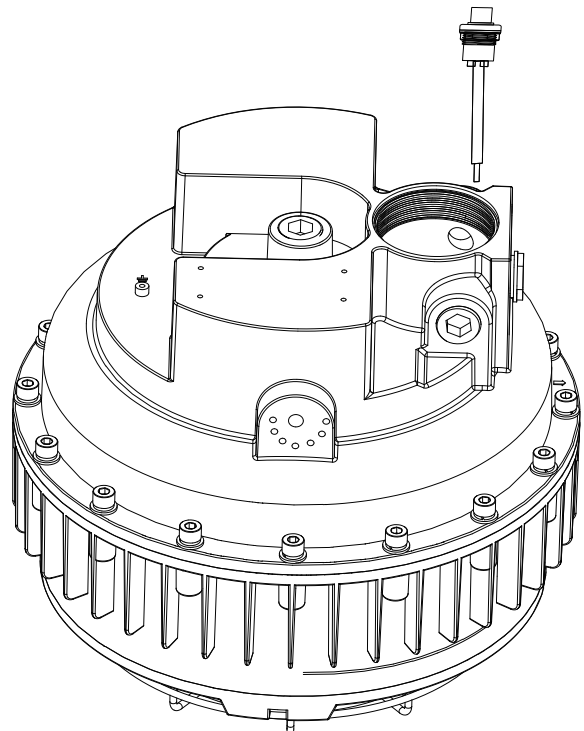
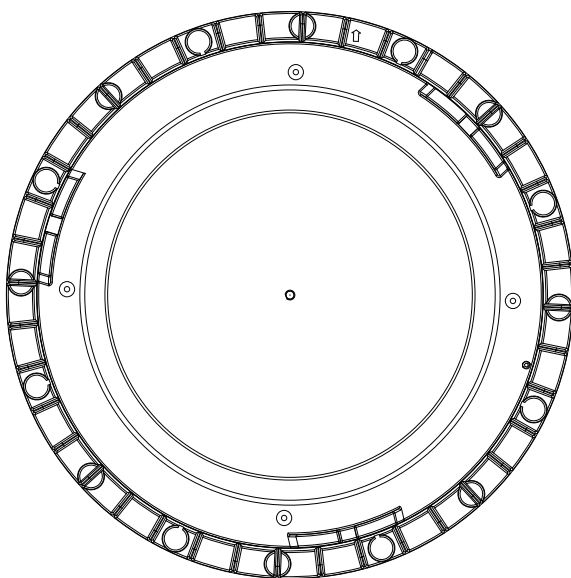
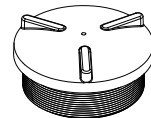
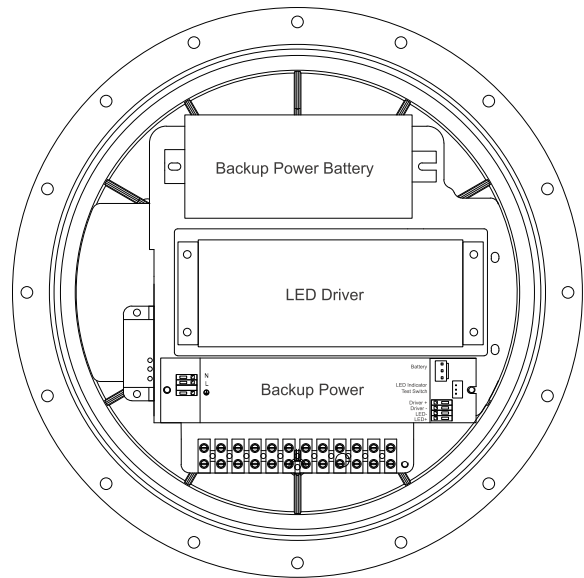
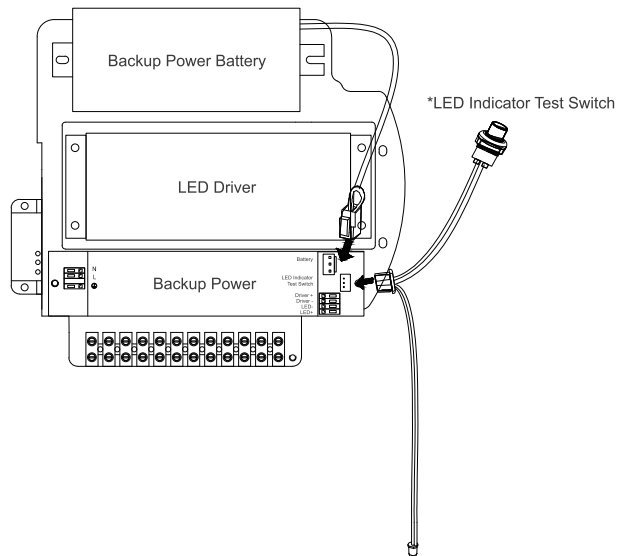
Battery Light Emergency Sign

Battery Backup Models & Wiring Diagram



Emergency LED Driver Mounting Methods

S2e



*This switch is exclusively for manufacturer internal testing of emergency circuit functionality.

Ordering Guide

EX - xxW S Y Z D E F G H I J K

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

①	EX	Explosion Proof Light
②	Input Wattage	S2e:20/30/40/50/60/70/80/90/100 110/120/130/140/150/160/170/180/190/200W
③	Lamp Enclosure Heatsink	S2 = Lamp Enclosure Heatsink S2e=Lamp Enclosure Heatsink with increased safety chamber
④	Dimming	"N"= No Dimming Function "D"= Dimmable
⑤	CCT	27=2700K; 30=3000K; 40=4000K; 50=5000K; 57=5700K; 60=6000K; 65=6500K
⑥	Beam Angle	D40=40 degrees; D60 or T2=60 degrees; D90 or T3=60 degrees; D120 or T5=120 degrees
⑦	Glass Type	CF=Clear flat glass
⑧	Type of installation	P90=Pole Mounting(90°) P25=Pole Mounting(25°) J=Jib Mounting U=U-bracket Mounting
⑨	Driver Box	A=Driver Cover A B=Driver Cover B C=Driver Cover C
⑩	Backup Power Source	"N"=No Backup Power "E"=With Backup Power
⑪	LED Types	1=5050 LED;2=2835 LED
⑫	Input Voltage	L=100-277V or 200-277V
⑬	Internal Code	N or T