



# EXP Series

Battery Units, Self-Powered  
Pictogram Signs Combination Units,  
Class 1, Div 1

Project/Location: \_\_\_\_\_

Contractor: \_\_\_\_\_

Date: \_\_\_\_\_

Prepared by: \_\_\_\_\_

## CSA certified for use in hazardous locations

The **EXP Series** of battery equipment is designed to cover emergency lighting applications for the entire spectrum of hazardous locations, where inflammable gases, vapors, liquids, dust particles, fabrics or tissues are permanently present or are likely to exist. In one simple-to-order catalogue family the **EXP Series** combines three traditional emergency lighting products with battery back-up: battery units with emergency lights, Self-Powered Exit Signs, and combination units with emergency lights and Exit Sign. The equipment is also available with additional emergency power capacity to drive remote heads and Exit Signs.

## FEATURES

- CSA Certified for use in hazardous locations:
  - Class I, Divisions 1 and 2, Groups B, C, D
  - Class II, Divisions 1 and 2, Groups E, F, G
  - Class III, Divisions 1 and 2
- Die-Cast aluminum body with grey epoxy powder coat finish; clear, impact and heat resistant prismatic glass globe
- Long-life, maintenance-free Lead-Calcium battery
- Battery charger is current limited, temperature compensated, short-circuit proof and reverse polarity protected
- Emergency heads with one or twin lamp design
- Self-Powered exit (combo) includes a transfer circuit to drive four remote LED-based remote Exit Signs
- Exit Sign uses an LED lamp with **ALINGAP** LEDs
- Exit Sign is CSA certified, meets or exceeds C860
- The Self-Powered version is also CSA C22.2 No. 141 certified



## TYPICAL SPECIFICATIONS

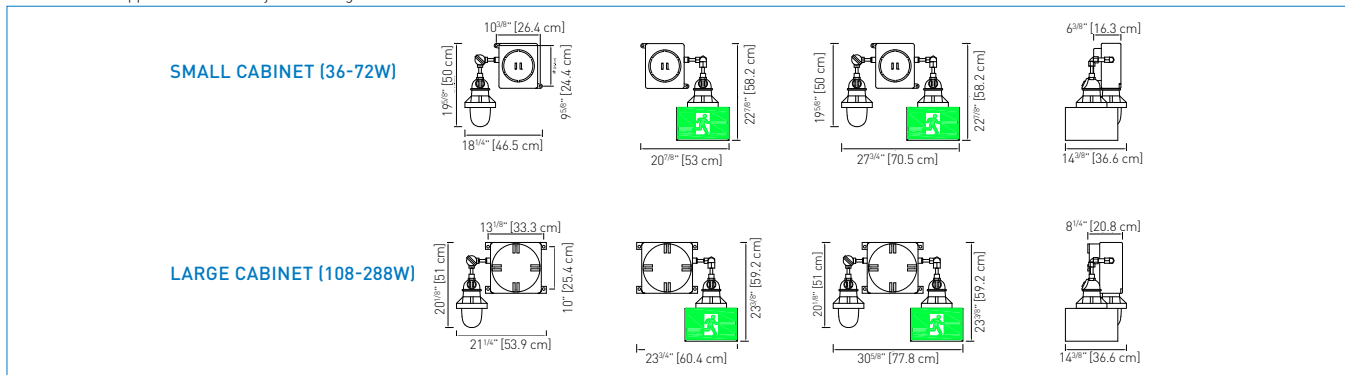
Supply and install the **Emergi-Lite® EXP Series** of hazardous location battery unit equipment. The battery unit housing will be constructed of Die-Cast aluminum with grey epoxy powder coat finish. The equipment shall be rated for 120, 277 or 347V, 60 Hz input and be CSA listed. The equipment shall have an output of \_\_\_\_\_ V and \_\_\_\_\_ W and shall supply the rated load for minimum of 1/2 hour to 87.5% of the rated battery voltage. The battery shall be a long-life, maintenance-free Lead-Calcium type. The charger shall be fully computer tested and have its charge voltage set in the factory to ± 1% tolerance. The charger shall be current limited, temperature compensated, short circuit proof and reverse polarity protected. The charger shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency heads when the utility power dips below 75% of nominal voltage. Where required the equipment shall come complete with \_\_\_\_\_ heads, each of them equipped with \_\_\_\_\_ lamp(s) of \_\_\_\_\_ W. The head housing shall be Die-Cast aluminum with grey epoxy powder coat finish. The lenses shall be a clear, impact and heat resistant prismatic glass globe. The head shall be factory sealed, with no need for external seals. Where required the equipment shall come complete with one Exit Sign and will include a transfer circuit to maintain the Exit Sign permanently lighting in both normal and emergency operation. The exit housing shall be industrial grade 14-gauge steel and finished in grey enamel. The faceplate will be constructed of heavy-duty 14-gauge steel and feature universal knockout chevrons and the red letters shall not be less than 6" in height with a 3/4" stroke. The sign shall include an LED lamp with **ALINGAP** LEDs and shall consume less than 5W in either AC or battery mode.

The equipment shall be suitable for Class \_\_\_\_\_, Division \_\_\_\_\_, Group \_\_\_\_\_. The Exit Sign shall be CSA-C860 approved.

The equipment shall be **Emergi-Lite®** Model: \_\_\_\_\_.

## DIMENSIONS

Dimensions are approximate and subject to change.



## POWER CONSUMPTION AND UNIT RATING

MODEL	AC SPECS		WATTAGE CAPACITY				
			30MIN	1H00	1H30	2H00	4H00
06EXP36	120/347VAC	0.50/0.20 A	36	21	15	12	6
06EXP72		0.50/0.20 A	72	42	30	24	12
06EXP108		0.50/0.20 A	108	63	45	36	18
12EXP72		0.50/0.20 A	72	42	30	24	12
12EXP144		0.50/0.20 A	144	84	60	48	24
12EXP200		0.50/0.20 A	200	117	83	67	33
24EXP144		0.50/0.20 A	144	84	60	48	24
24EXP288		0.50/0.20 A	288	168	120	96	48

NOTE: The wattage capacity applies only to the battery unit. For combo or Self-Powered Exit Signs one must allocate 5W of emergency power for each sign.

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 \_\_\_\_\_  
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# EXP Series

Battery Units, Self-Powered Pictogram Signs Combination Units, Class 1, Div 1



## TEMPERATURE CODES: MEASURED AT 40°C AMBIENT

Explosion-proof equipment is composed of one or more modules, each of them qualified for a specific temperature code. The temperature code of the complete equipment (enclosure + exit sign + emergency heads) is defined as the most severe of the temperature codes identified for each of the modules below.

### 1. TEMPERATURE CODES FOR EXP-P SERIES (BATTERY UNIT ENCLOSURE)

SEVERITY CODE	S1	S2	S3	S4
TEMPERATURE CODE	T6	T6	T6	T6

### 2. TEMPERATURE CODES FOR EX SERIES\* (PICTOGRAM EXIT SIGN)

SEVERITY CODE	S1	S2	S3	S4
TEMPERATURE CODE	T6	T6	T4A	T6 (E, F, G)

\*Self-Powered Pictogram Exit Sign only (no heads).

### 3. TEMPERATURE CODES FOR EFXPR SERIES (EMERGENCY HEADS)

SEVERITY CODE	QUARTZ BI-PIN 12W, 20W	MR16 12V-12W	MR16 12V, 24V-20W	MR16 12V, 24V-35W	MR16 12V, 24V-50W	MR16 120V-20W	MR16 120V-35W	MR16 120V-50W
S1	T5 (100°C)	T6 (85°C)	T5 (100°C)	T4A (120°C)	T3C (160°C)	T5 (100°C)	T3A (180°C)	T3 (200°C)
S2	T5 (100°C)	T6 (85°C)	T5 (100°C)	T4A (120°C)	T3C (160°C)	T5 (100°C)	T3A (180°C)	T3 (200°C)
S3	T1 (450°C)	T4 (450°C)	T3 (200°C)	T2 (300°C)	T1 (450°C)	T2D (215°C)	T2 (300°C)	T1 (450°C)
S4	T4A (120°C) (E,F,G)	T5 (100°C) (E,F,G)	T5 (100°C) (E,F,G)	T4A (120°C) (E,F,G)	T3C (160°C) (E,F,G)	T4A (120°C) (E,F,G)	T3C (160°C) (E,F,G)	N/A

## ORDERING INFORMATION

Before ordering, identify the environment of your application: Class \_\_\_\_\_, Division \_\_\_\_\_, Group \_\_\_\_\_. Refer to the table 1 for the Severity Code to use in your catalogue number. For temperature information, please look at the table 2.

### 4. EXP SEVERITY CODE SELECTION CHART

ENVIRONMENT	SEVERITY CODE
Cl. I, Div. 1, Gr. B	S1
Cl. I, Div. 1, Gr. C, D	S2
Cl. I, Div. 2, Gr. B, C, D	S3
Cl. II, Div. 1 & 2, Gr. E, F, G Cl. III, Div. 1 & 2	S4

\*Units for Class I Group A are not available with test switch and pilot light

## EXP

DC VOLTAGE	SERIES	CAPACITY / CABINET / SIZE	AC VOLTAGE	OPTIONS	HEAD STYLE	SEVERITY CODE	LAMPS
06= 6V	EXP	36= 36W (S)* 72= 72W (S)* 108= 108W (L)*	Blank= 120VAC -2= 277VAC -3= 347VAC	Blank= no options D= time delay (15 minutes) P1= single face pictogram sign, LED P2= double face pictogram sign, LED TS= transfer switch	Blank= no heads /11= single remote, 1 lamp /12= single remote, 2 lamps /21= double remote, 1 lamp each	S1= CL. I, Div.1, Gr. B S2= CL. I, Div.1, Gr. C, D S3= CL. I, Div.2, Gr. B, C, D S4= CL. II, Div.1 & 2 Gr. E, F, G, CL. III, Div.1 & 2	Blank= no lamp 12= halogen, 6V, 12V, 12W, bi-pin 20= halogen, 6V to 24V-20W, bi-pin MK= MR16 halogen, 12V-12W MA= MR16 halogen, 12V-20W MB= MR16 halogen, 12V-35W MC= MR16 halogen, 12V-50W MD= MR16 halogen, 24V -20W ME= MR16 halogen, 24V-35W MF= MR16 halogen, 24V-50W MW= MR16-IR, 12V-20W, high output MR= MR16-IR, 12V-35W, high output MM= MR16-IR, 12V-50W, high output
12= 12V		72= 72W (S)* 144= 144W (L)* 200= 200W (L)*					
24= 24V		144= 144W (L)* 288= 288W (L)*					

\* Cabinet size not part of nomenclature

EXAMPLE: 06EXP36E1/21S312W