

New product

## EXP LED “Sortie” Series

Battery units, self-powered sortie signs, combination units



### Features

#### CSA certified for use in hazardous locations

The **EXP LED “SORTIE” 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 or fabrics tissues are permanently present or are likely to exist.

The **EXP LED “SORTIE” Series** combines in one simple-to-order catalogue family three traditional emergency lighting products with battery back-up: battery units with emergency lights, self-powered sortie signs, and combination units with emergency lights and sortie sign. The equipment is also available with additional emergency power capacity to drive remote heads and sortie signs.

- CSA certified for use in hazardous locations:
  - Class I, Division 1, Groups B, C, D
  - Class I, Division 2, Groups A, B, C, D
  - Class II, Divisions 1 and 2, Groups E, F, G
  - Class III, Divisions 1 and 2
- For wall mount only
- 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
- Large self-powered sortie (combo) includes a transfer circuit to drive three (3) LED-based remote exit signs (total power max 15W)
- New, easy-to-build catalogue number based on the **Emergi-Lite®** severity codes
- Meets or exceeds CSA C22.2 No.141-10 & No. 137
- **Warranty details at: [www.emergi-lite.ca](http://www.emergi-lite.ca)**



### Typical specifications

Supply and install the **Emergi-Lite® EXP LED SORTIE Series** of hazardous location battery unit equipment. The battery unit housing will be constructed of die cast aluminum with grey epoxy powder coat finish and equipped with heavy-duty key holes for wall mount. 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 a minimum of a 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  $\pm 1\%$  tolerance. The charger shall be current limited, temperature compensated, shortcircuit 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.

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 sortie sign and will include a transfer circuit to maintain the sortie 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.

The equipment shall be certified CSA C22.2 No.137-M1981 for hazardous locations: Class \_\_\_\_\_, Division \_\_\_\_\_, Group \_\_\_\_\_ with the temperature code \_\_\_\_\_.

The Sortie Sign shall be CSA C22.2 No.141-10 certified.

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

#### Temperature codes for EXP-P Series – 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 + picto sign + emergency heads) is defined as the most severe of the temperature codes identified for each of the modules below.

Severity code	S1	S2	S3	S4
Temperature code	T6	T6	T6	T6
	85°C (185°F)	85°C (185°F)	120°C (248°F)	85°C (185°F)

#### EXP Series severity code selection chart

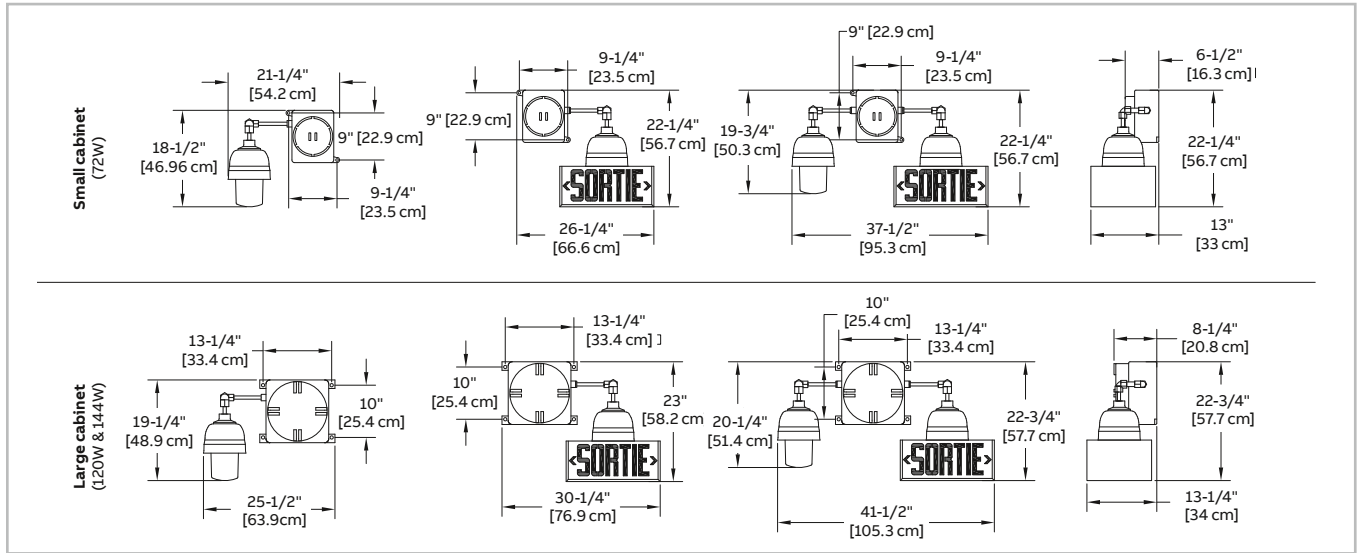
Environment	Severity code
Class I, Div. 1 & 2, Gr. B	S1
Class I, Div. 1, Gr. C, D	S2
Class I, Div. 2, Gr. A, B, C, D	S3
Class II, Div. 1 & 2, Gr. E, F, G & Class III	S4

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### Dimensions

Dimensions are approximate and subject to change.



### Power consumption

Unit capacity	AC specs		Wattage capacity				
	Input voltage	Input rating	30 min	1H00	1H30	2H00	4H00
12V-72W <sup>1</sup>	120V, 60Hz	0.25A, 25W					
	277V, 60Hz	0.125A, 28W	72	36	25	20	10
	347V, 60 Hz	0.115A, 28W					
12V-120W	120V, 60Hz	0.45A, 37W					
	277V, 60Hz	0.209A, 42W	120	60	40	30	15
	347V, 60 Hz	0.176A, 42W					
24V-144W	120V, 60Hz	0.465A, 38W					
	277V, 60Hz	0.208A, 42W	144	72	50	40	20
	347V, 60 Hz	0.178A, 42W					

<sup>1</sup>Combo, no remote exit capability

### Ordering information

Series	Capacity	AC voltage	Options	Sign/face
12EXP= 12V	72= 72W <sup>1</sup>	-2= 277VAC input -3= 347VAC input Blank= 120VAC	Blank= no sign D= time delay (15 min.) TS= transfer switch <sup>1,2</sup>	Blank= no sign S1= single face LED “SORTIE” S2= double face LED “SORTIE”
	120= 120W			
<p><sup>1</sup>Not available with 12V-72W. Standard with combo. <sup>2</sup>Not available for S1 and S2.</p>				

24EXP= 24V	144= 144W	Head style	Severity code	Lamp type, voltage & power
	<sup>1</sup> Combo, no remote exit capability	/11= single remote, 1 lamp /12= single remote, 2 lamps /21= double remote, 1 lamp each <sup>1</sup> Blank= no heads	S1= Cl.I, Div.1&2, Gr.B S2= Cl.I, Div.1, Gr. C, D S3= Cl.I, Div.2, Gr. A, B, C, D S4= Cl.II, Div.1&2, Gr. E, F, G & CLIII	Blank= no lamp LG= 12V-4W MR16 LED LI= 12V-5W MR16 LED LJ= 12V-6W MR16 LED LL= 24V-4W MR16 LED
<p><sup>1</sup>Not available with sortie sign</p>				

Example: 12EXP72-2S1/11S1LG