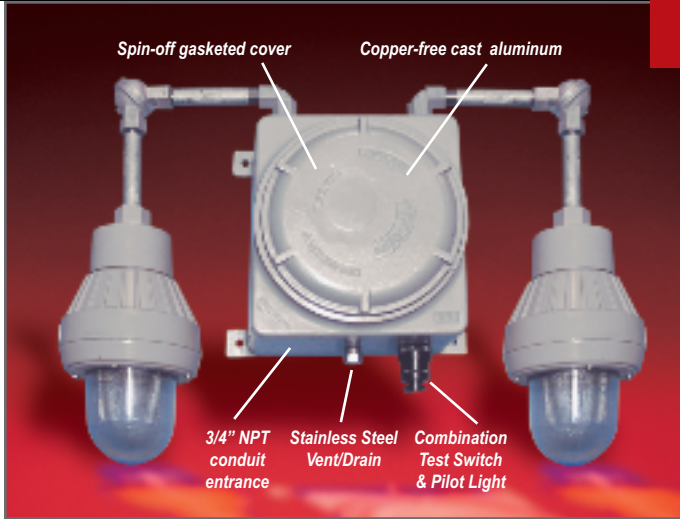


## ■ EXP6N, EXP12N Series



6 or 12 Volt Hazardous Location Emergency Unit  
Sealed Maintenance-free Nickel-Cadmium Battery  
For operation in Hazardous areas

Class I, Divisions 1 & 2, Groups C & D

Class II, Divisions 1 & 2, Groups E, F & G

Lighting Fixture and battery housing comply with NEC, OSHA and NEMA specifications for all above Classes and Groups

The **EXP Series** explosion proof lighting systems are completely self-contained and designed to allow safe operation of the battery and electronics in the classified areas specified above.

### □ FEATURES

#### Reliability

The **EXP Series** has a three-year full warranty (excluding lamps and fuses).

#### Unit Data

The EXP systems consist of a power unit and any combination of lighting fixture and/or exit sign. The entire system can be located within the hazardous area. Manufactured in accordance with UL 844, 1203 and 924, the EXP systems feature an explosion-proof cabinet and spin-off gasketed cover. Each piece is constructed of one-piece heavy gauge, corrosion resistant, copper-free cast aluminum, to prevent propagation of internally generated arcs into the hazardous atmosphere. A Silicone conformal coating on circuit board helps to protect the electronics against humidity.

The EXP series features a sealed maintenance-free Nickel-Cadmium battery with a long life, minimal gassing and superior resistance to temperature extremes.

#### Lamp

Series EXP systems are designed so that one or two explosion-proof fixtures can be mounted on the cabinet, in various configurations, i.e., one lamp and one exit fixture, two lamp fixtures, two exit fixtures, etc. Fixtures mounted on the cabinet are ordered as part of the system by catalog number. See "ordering format".

Lightalarms lamp fixtures are heavy cast aluminum with pyrex® lenses. Medium Screw Base are standard, Double Contact Bayonet Base and Halogen lamps are optional. For complete information refer to the Series EPF401 spec sheets. Pyrex® is a registered trademark of Corning Glass.

Lightalarms exit signs are a rectangular, heavy duty steel box with exit lettering on single face (X402) or double face (2X402). Exit signs are for DC or AC operation.

For complete information refer to the X402 Series.

#### Charger

Completely automatic, the charger will feature a solid state transfer and be capable of recharging the batteries in accordance with UL 924. The charger will provide a high charge rate immediately upon restoration of AC power and a trickle rate to maintain the battery charged. Charger shall be a constant current type.

#### Controls

Combination momentary test switch and AC-ON pilot light.

#### Power Requirements

Dual input voltage transformer, 120/277Vac 60Hz, 0.3/0.15 Amp (other voltages available on request)

### □ OPTIONS

(Add Suffix to Model No.)

Time Delay (specify 5, 10 or 15 minutes) .....-TD\_  
Transfer Switch option .....-TS

### □ UNIT SELECTION CHART

Volts	Model No. (Unit/Lamp Suffix)	Input Watts	Watts to 87.5% of				
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.	8 hrs.
6	EXP6N18	18	18	12	-	-	-
	EXP6N25	25	25	18	9	9	-
	EXP6N36	36	36	21	12	12	6
	EXP6N50	50	50	36	18	18	10
12	EXP12N36	36	36	21	12	12	6
	EXP12N50	50	50	36	18	18	10
	EXP12N72	72	72	42	24	24	12

\*National Electrical Code Specification

### □ ORDERING FORMAT

#### Example 1: System with 2 lamp fixtures only

EXP6N25	E402/LH7	2
6V Explosion-Proof Unit	Lighting Head with 10W Halogen Lamp	Number of Heads Attached to Cabinet

#### Example 2: System with 1 lamp fixture and 1 exit sign

EXP6N25	E402/LH7	TS	X402
6V Explosion-Proof Unit	Lighting Head with 10W Halogen Lamp	Transfer Switch	Single Face Exit

## ▣ LAMP SELECTION CHART

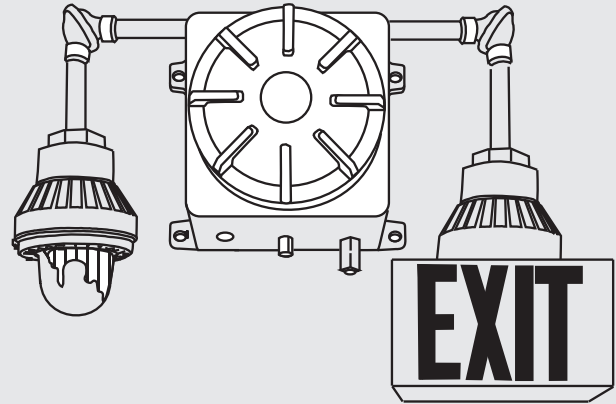
Lamp Type	Voltage	Lamp Wattage	Replacement Part #	Lamp Suffix (Add to Unit Model No.)
High Intensity Tungsten (HIT)	6V	9W	135	L9
	6V	18W	136	L18
	12V	9W	138	L9
	12V	18W	139	L18
	12V	25W	140	L25
BI-PIN Halogen	6V	6W	784	LH4
	6V	8W	785	LH5
	6V	10W	787	LH7
	6V	12W	786	LH6
	6V	15W	JC6V-15W	LH1
	12V	8W	774	LH8
	12V	12W	783	LH3

**Note:** Units are supplied standard with appropriate wattage (HIT) high intensity tungsten lamps (unless otherwise specified). Alternate wattage lamps or halogen lamps may be substituted as required. For run times other than 90 minutes, refer to Unit Rating Chart.

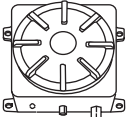
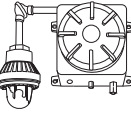
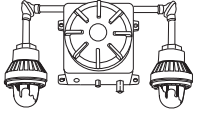
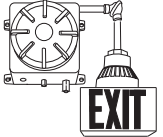
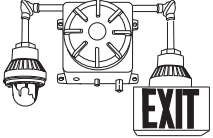
## ▣ DIMENSIONS

Dimensions are approximate and subject to change.

Housing: 12" X 12" X 9-1/2". (4)  
 Mounting Lugs: 10" and 13-1/2" on center  
 Overall dimensions (including fixtures): 38" X 38" X 10"



## ▣ STANDARD CONFIGURATIONS FOR EXP SERIES

Unit	Catalog Number	Description
 (Remote capability)	<b>EXP12N50</b>  <b>EXP12N50-TS</b>	12 volt self-contained hazardous area emergency lighting power unit complete with battery and charger.  12V self contained hazardous area emergency lighting. power unit complete with battery charger and transfer switch.
	<b>EXP6N50E402/LH1</b>  <b>EXP6N50E402/LH1-TS</b>	Single head unit with 6 volt, 15 watt Bi-Pin halogen lamp.  Single head unit with 6V lamp shown with Transfer Switch option.
	<b>EXP6N50E402/L9-2</b>  <b>EXP6N50E402/L9-TS-2</b>	6 volt self-contained hazardous area emergency lighting power units complete with battery and charger and two heads. Each fixture supplied with one 9 watt HIT lamp.  6V self contained hazardous area emergency lighting. Power unit complete with battery, charger, 2 heads and transfer switch. Each fixture supplied with one 9 watt HIT lamp.
	<b>EXP6N25TSX402R</b>	Self-contained unit with integral low voltage transfer panel (TS) to operate max. the 15W exit lamp in both normal and emergency modes. Suggested catalog number shown indicates single face exit with red stencil faceplate. For green, substitute G for R. For double face, substitute 2X402 for X402.
	<b>EXP6N50E402LH1TSX402R</b>	In addition to the max. 15W exit lamp which operates in both normal and emergency modes, greater emergency lighting can be achieved with (1) additional emergency lighting head. Each fixture supplied with one 6 volt, 15 watt (LH1) Bi-pin halogen lamp.

**Note:** Above units are supplied with appropriate wattage (HIT) High Intensity Tungsten lamps (unless otherwise specified). Alternate wattages lamps or halogen lamps may be substituted as required. Exit provided with 25 watt lamps only.