

## EXP6N & EXP12N SERIES

Explosives/Hazardous location Housing  
6V up to 50W & 12V up to 72W Capacities  
Nickel-Cadmium battery

### FEATURES

#### Housing

- Class I, Division 1 & 2, Group C & D
- Class II, Division 1 & 2, Group E, F & G
- One-piece heavy gauge, corrosion resistant, copper-free cast aluminum
- Consists of a housing with provisions for up to two lighting heads
- Spin-off gasketed cover prevents propagation of internally generated arcs
- Stainless steel vent/drain
- Lighting head fixtures are heavy cast aluminum with Pyrex® lens
- Circuit board silicone conformal coated to protect against humidity

#### Mounting

- Surface Wall Mount for complete unit with attached lamp heads
- Surface, Wall, Ceiling and Pendant Mount for EPF401 as DC remote heads
- Housing includes 4 mounting lugs on each corner
- 3/4" NPT conduit entry on top and bottom of housing
- Single and double pendant mount heads include elbow swivel, conduit extension pipe (6" increments) and Hazardous Location junction box.

#### Electronics

- High capacity, automatic, solid-state transfer
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection is provided
- Battery lock-out prevents battery discharge during installation
- Fused output circuit
- Input: 120/277 VAC, 60Hz 0.3/0.15A

#### Controls

- Combination momentary test switch and AC present indicator light

#### Sealed Maintenance-Free Battery

- 6V or 12V, Nickel-Cadmium battery

#### Approvals

- Manufactured in accordance with UL844, UL1203, and UL924
- Cabinet and lighting fixtures rated for operation in Class I, Division 1 & 2, Groups C and D
- Cabinet and lighting fixtures rated for operation in Class II, Division 1 & 2, Groups E, F and G
- NEC, OSHA and NEMA compliant for above Classes and Groups

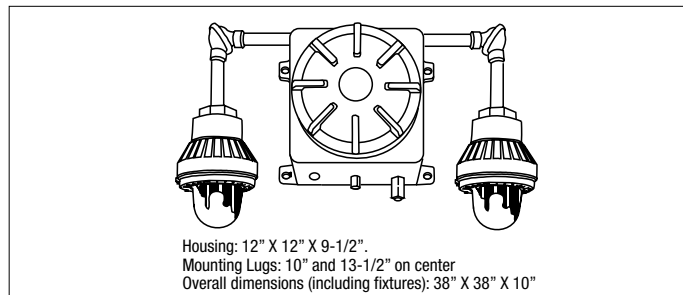
#### Warranty (subject to proper installation and maintenance)

- Unit has a three year full warranty (excluding lamps and fuses)<sup>1</sup>
- Nickel-Cadmium battery, five year full, plus five year pro-rata warranty

<sup>1</sup> For LED lamps warranty, refer to page 168 paragraph 3.2

### DIMENSIONS

Dimensions are approximate and subject to change.



### SPECIFICATIONS

Supply and install Lightalarms® EXP6N, EXP12N Series. The emergency lighting unit shall be a self-contained fixture including a sealed maintenance-free Nickel-Cadmium battery of 6V or 12V wattage as specified on the unit rating chart. The unit shall supply the rated wattage load for a minimum of 90 minutes to 87-1/2% of rated battery voltage. The unit shall be rated 120/277VAC, 60Hz .

The unit charger shall utilize an integrated circuit which samples the battery in relation to temperature, state of charge and input voltage fluctuations. The charger shall be current limited. The unit 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 unit when utility power dips below 80-85% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load and circuitry from the battery when it reaches 87-1/2% of its nominal voltage. The unit shall be capable of full recharge in compliance with UL 924 specifications.

The unit shall be furnished with solid state transfer, a combination momentary test switch, to simulate a power failure and an AC indicator light which indicates presence of AC to the unit. The cabinet shall be Hazardous Location, one-piece heavy gauge, corrosion resistant, copper-free cast aluminum, finished in gray. Housing with provisions of up to two lighting head and includes 4 mounting lugs on each corner and a 3/4" NPT conduit entry on the top and bottom. Spin-off gasketed cover prevents propagation of internally generated arcs into the hazardous atmosphere. Lighting head are heavy cast aluminum with Pyrex® lens(es). Housing shall be surface wall mount with or without attached lamp heads. EPF401 lighting heads not attached to housing, thus being remote heads, shall be surface, wall, ceiling or pendant mount. Single and double pendant mount fixtures include elbow swivel, conduit extension pipe (6" increments) and combination explosion-proof junction box / mounting plate.

Every EXP6N, EXP12N Series unit shall be fully warranted for three years, subject to proper installation and maintenance.

Unit shall be Lightalarms® catalog number\_\_\_\_\_.

### LAMP SELECTION CHART

DCBB BASE INCANDESCENT LAMPS				
LAMP SUFFIX	VOLTAGE	WATTAGE	LUMENS	REPLACEMENT #
L9	6V	9W	126	570.0010-L
L18	6V	18W	300	570.0037-L
L9	12V	9W	126	570.0011-L
L18	12V	18W	276	570.0030-L
L25	12V	25W	400	570.0031-L

BI-PIN HALOGEN LAMPS				
LAMP SUFFIX	VOLTAGE	WATTAGE	LUMENS	REPLACEMENT #
LH4	6V	6W	113	570.0012-L
LH5	6V	8W	163	570.0013-L
LH7	6V	10W	200	570.0017-L
LH6	6V	12W	240	570.0011-L
LH1	6V	15W	210	570.0086-L
LH8	12V	8W	163	570.0014-L
LH3	12V	12W	276	570.0015-L

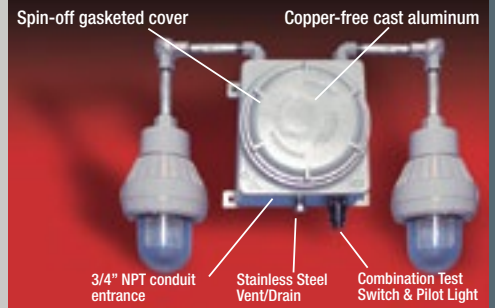
Note: Units are supplied standard with appropriate wattage (HIT) high intensity tungsten lamps (unless otherwise specified). Alternate wattage lamps or halogen lamps may be substituted as required.

TYPE \_\_\_\_\_

CATALOG # \_\_\_\_\_

NOTES \_\_\_\_\_

Designed to meet the specific requirements Class I, Division 1&2, Groups C and D Class II, Division 1&2, Groups E, F and G Complies with NEC, OSHA and NEMA specification



## POWER CONSUMPTION / UNIT RATING CHART

SERIES	DC SPECS						AC SPECS	
	BATTERY TYPE	DC VOLTAGE	87.5% BATTERY CAPACITY (IN WATTS) <sup>1</sup>				UNITS DUAL VOLTAGE <sup>2</sup>	CURRENT MAXIMUM
			90 MIN.	2 HRS.	3 HRS.	4 HRS.		
EXP6N18	Nickel-Cadmium	6V	18	12	0	0	120VAC 277VAC	.3A .15A
EXP6N25		6V	25	28	9	9		
EXP6N36		6V	36	21	12	12		
EXP6N50		6V	50	36	18	18		
EXP12N36		12V	36	21	12	12		
EXP12N50		12V	50	36	18	10		
EXP12N72		12V	72	42	24	24		

<sup>1</sup> National Electrical Code Specification

<sup>2</sup> All units 120/277 dual voltage, information based on wiring to specific voltage type

## STANDARD CONFIGURATIONS FOR EXP6N AND EXP12N SERIES

UNIT	CATALOG NUMBER	DESCRIPTION
 (Remote capability)	EXP12N50	12V self-contained hazardous area emergency lighting power unit complete with battery and charger.
	EXP12N50-TS	12V self-contained hazardous area emergency lighting. power unit complete with battery charger and transfer switch.
	EXP6N50E402/LH1	Single head unit with 6V-15W Bi-Pin halogen lamp.
	EXP6N50E402/LH1-TS	Single head unit with 6V-15W lamp shown with Transfer Switch option.
	EXP6N50E402/L9-2	6V self-contained hazardous area emergency lighting power units complete with battery and charger and two heads. Each fixture supplied with one 9W HIT lamp.
	EXP6N50E402/L9-TS-2	6V self-contained hazardous area emergency lighting. Power unit complete with battery, charger, 2 heads and transfer switch. Each fixture supplied with one 9W HIT 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.

## ORDERING FORMAT

SERIES	HEAD STYLE	LAMP SUFFIX <sup>1</sup>	TS OPTION	# OF HEADS	OPTIONS
EXP6N18= 6V-18W EXP6N25= 6V-25W EXP6N36= 6V-36W EXP6N50= 6V-50W EXP12N36= 12V-36W EXP12N50= 12V-50W EXP12N72= 12V-72W	Blank= No Heads E402= Head Style	/ _____  <sup>1</sup> On page 94 choose from lamp selection chart no other lamp types available	Blank= No Transfer Switch -TS= Transfer Switch	Blank= One head -2= Two heads	Blank= No options -AG= Angle reflector -DM= Dome reflector -GD= Wire guard (covers glass globe only)

EXAMPLE: EXP6N36/LH5-2

## EXP FAMILY

Ideal for industrial applications, the **EXP family** include explosion-proof fixtures to deliver reliable performance and with stand harsh conditions.



EPF401 Remote Head  
p.114



X402 Series Exit Sign Unit  
p.48



EXP6N & EXP12N Combination Series  
p.49