

## IC-2 Series

### 6 Volt Ultra-Slim Emergency Unit Sealed Maintenance-Free Lead Calcium Battery UL Listed



The IC-2 Series, is an aesthetically attractive, economical unit ideal for commercial or institutional facilities. This unit offers reliable performance in a low profile, contemporary design.

#### FEATURES

##### Reliability

The IC-2 Series has a three-year full warranty (excluding lamps and fuses).

##### Unit Data

The compact, ultra-slim housing and prismatic lenses are constructed of an injection-molded, tough thermoplastic body that will not scratch or corrode. It has a lightly textured "mist white" finish that blends well with any décor. All units come with a pre-wired AC to save time and installation costs. Simply wire the mounting plate to the building AC and secure. Then, using the AC quick connect plug, snap the housing onto the mounting plate and the unit is ready to be powered. Attractive and versatile, the IC-2 Series battery units can be mounted in any orientation on walls and ceilings. Available as a remote fixture; see Remote Fixtures section of this catalogue.

##### Lamp

Standard with two 6-watt, high intensity, all glass, wedge base incandescent lamps. Alternate lamp sockets shall be provided to adjust photometric pattern.

##### Charger

- Automatic, temperature compensated, charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.08/0.04 Amp

#### OPTIONS

| (Add Suffix to Model No.)        | Suffix    |
|----------------------------------|-----------|
| Damp Location .....              | -DL       |
| Vandal Resistant Screws .....    | -VR       |
| 3-Wire Cord & Plug (120V).....   | -3CP*     |
| 3-Wire Cord and Plug (277V)..... | -3CP-277* |

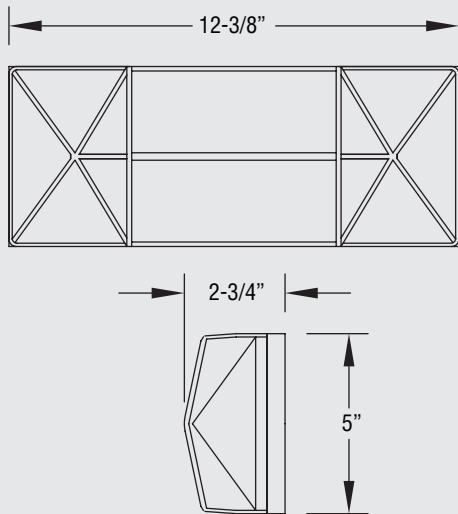
\*Standard cord is 3 ft. custom lengths available.

#### ACCESSORIES

(Order as a separate item)

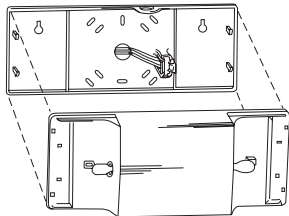
|                       |          |
|-----------------------|----------|
| Wire Guard .....      | WG13     |
| Lamp Replacement..... | 570.0012 |

#### DIMENSIONS



Dimensions are approximate and subject to change

Snap-on housing Self-connecting power plug



#### UNIT RATING CHART

| Volts | Model No. | *Watts to 87-1/2% of Rated Battery Voltage |        |
|-------|-----------|--|--------|
|       |           | 1-1/2 Hrs.                                 | 2 Hrs. |
| 6     | IC-2      | 12   | 8      |

\*National Electrical Code Specification

#### ORDERING FORMAT

**IC-2**

Series

**-DL**

Option

-DL=Damp Location

See Remote ICR-2 Series on page 78



## LCA-2SQ Series

**6 Volt Thermoplastic Battery Unit**  
**Damp Location Listing is standard on all models**  
**Sealed Maintenance-Free Lead Calcium Battery**  
**UL Listed**

The LCA-2SQ Series, an extremely versatile unit, that can be wall or ceiling mounted. With the option of 11 watts remote capacity and standard damp location listing, this emergency lighting unit with adjustable heads is your solution for emergency lighting.

### FEATURES

#### Reliability

The LCA-2SQ Series has a three-year full warranty (excluding lamps and fuses).

#### Unit Data

Constructed of an injection-molded, UV stabilized, UL 94, 5VA flame rated thermoplastic housing and back plate. The sealed maintenance-free Lead-Calcium battery is designed to power 11 watts remote load or extended unit run time, if necessary (refer to options "R" to order). LCA-2SQ can be wall or ceiling mounted. Unit has universal knock-out pattern on the back plate that allows for junction box mounting. An innovative snap-together design allows for fast and easy installation.

#### Lamp

Furnished standard with two, 6 volt, 6 watts DC T5 wedge base lamps for emergency mode.

#### Charger

- 120/277Vac, 60Hz, 0.08/0.04 Amp
- LED indicator light and push button test switch
- Remote capacity – may power additional remote heads (up to 6V 11W)
- Low voltage battery disconnect
- All models are damp location listed

### OPTIONS

| (Add Suffix to Model No.)        | Suffix |
|----------------------------------|--------|
| Black Housing and Heads .....    | -B     |
| Remote Capacity (11 watts) ..... | -R*    |

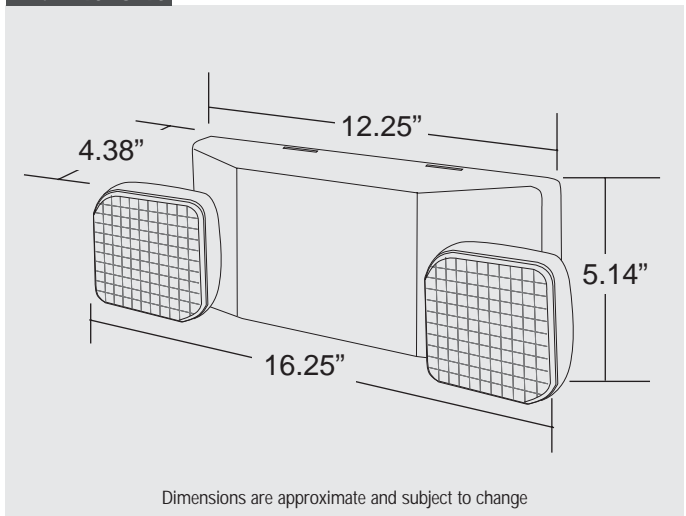
\*Do not exceed rated unit capacity

### ACCESSORIES

| (Order as a separate item)        |           |
|-----------------------------------|-----------|
| Replacement Battery .....         | .860.0018 |
| Replacement Lamp (standard) ..... | .570.0012 |
| Wire Guard .....                  | .WG10     |
| Vandal Shield .....               | .CPS      |
| Vandal Shield (NEMA-4X) .....     | .CPS-4X   |



### DIMENSIONS



### ORDERING FORMAT

| LCA          | -2SQ                           | R  |
|--------------|--------------------------------|--|
| Series       | Light Heads                    | Capacity Indicator                                   |
| Self-Powered | -2SQ=<br>6V 6W<br>Incandescent | Blank= No Remote Capacity<br>R= 11W Remote Capacity* |

*\*Do not exceed rated unit capacity.*

## LCA-2MR Series



**6 Volt Thermoplastic Battery Unit**  
**Damp Location Listing is standard on all models**  
**Sealed Maintenance-Free Lead Calcium Battery**  
**UL Listed**

The LCA-2MR Series, is the perfect battery unit for use where style and design are required in an economical package.

### FEATURES

#### Reliability

The LCA-2MR Series has a three-year full warranty (excluding lamps and fuses).

#### Unit Data

The unit is completely self-contained and the housing is constructed of high impact, UL recognized, 94, 5VA thermoplastic. The compact design will allow for space restrictions often encountered. The snap together housing facilitates mounting in any orientation.

#### Lamp

Furnished with two 6 volt, MR16 glare free halogen lamp heads

#### Charger

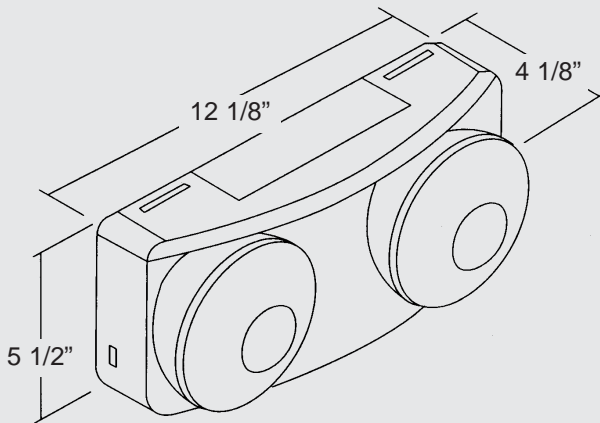
- Automatic, temperature compensated, charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.

### ACCESSORIES

(Order as a separate item)

|                            |          |
|----------------------------|----------|
| Replacement MR16 Lamp..... | 580.0072 |
| Wire Guard.....            | WG13     |

### DIMENSIONS



Dimensions are approximate and subject to change

### ORDERING FORMAT

**LCA**

Series

**-2MR**

Light Heads

-2MR=

6V 5W MR16 Halogen



## KB-1 Series

### 6 Volt Thermoplastic Battery Unit Sealed Maintenance-Free Lead Calcium Battery UL Listed

The KB-1 Series combines style, economy and performance in a compact, easy-to-install emergency light unit. It has all the features of larger, more expensive units, but is the ideal unit for institutional facilities where limited space and economy are concerns.

#### FEATURES

##### Reliability

The KB-1 Series has a three-year full warranty (excluding lamps and fuses).

##### Unit Data

The battery and all components are housed in a compact case injection molded from a high impact, corrosion resistant, "mist white" thermoplastic material. The KB-1 easily mounts to wall or ceiling with independent, universal mounting plate. AC and battery quick connect plug simplify wiring for quick and easy installation

##### Lamp

Furnished standard with two Par 18 size lamp assemblies furnished with 6 watt high intensity incandescent or halogen lamps. The heads are fully adjustable horizontally and vertically.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.

##### Controls

- Red AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

- 120/277 Vac, 60Hz, 0.08/0.04 Amp

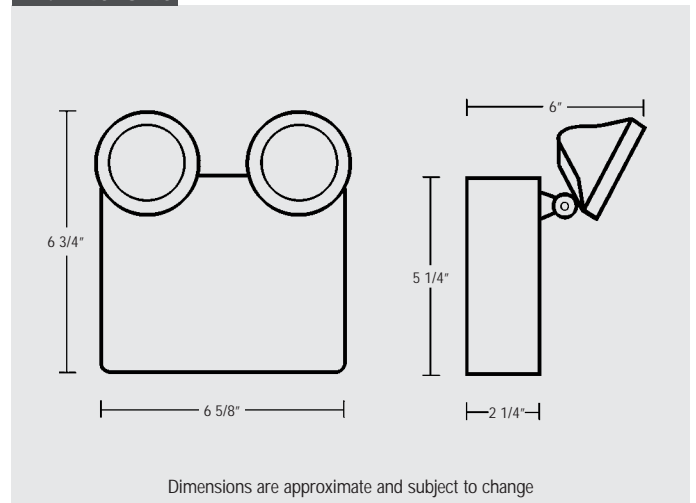
#### OPTIONS

| (Add Suffix to Model No.)       | Model      |
|---------------------------------|------------|
| Voltmeter .....                 | -V         |
| Vandal Resistant Screws .....   | -VR        |
| 3-Wire Cord & Plug .....        | -3CP *     |
| 3-Wire Cord & Plug (277V) ..... | -3CP-277 * |
| Black Housing and Heads .....   | -B         |
| Halogen Lamps (6V 6W) .....     | /LH4       |

\*Standard cord is 3 ft. custom lengths available.



#### DIMENSIONS



#### UNIT SELECTION CHART

| Volts | Model No. | *Watts to 87-1/2% of Rated Battery Voltage |        |
|-------|-----------|--|--------|
|       |           | 1-1/2 Hrs.                                 | 2 Hrs. |
| 6     | KB-1      | 12   | 8      |
| 6     | KB-1/LH4  | 12   | 8      |

\*National Electrical Code Specification

#### ORDERING FORMAT

|             |                    |
|-------------|--------------------|
| <b>KB-1</b> | <b>/LH4</b>        |
| Series      | Options            |
|             | 6V 6W Halogen Lamp |

## DM, DS Series

### 6 or 12 Volt Thermoplastic Emergency Unit Sealed Maintenance-Free Lead Calcium Battery UL Listed

The **DM, DS Series**, is an excellent combination of economy and quality – the best offered in the industry. This unit is compact, lightweight and corrosion resistant.

#### FEATURES

##### Reliability

The DM, DS Series has a three-year full warranty (excluding lamps and fuses).

##### Unit Data

Construction consists of a compact, lightweight, corrosion resistant thermoplastic cabinet with a "mist white" finish. Meets UL 94, 5VA flame classification. Both cabinets (small and large) are designed with rear keyhole mounting slots on the back plates and mount directly to any standard 4" octagonal electric box. The 6 Volt, small cabinet (DS3, DS6, DS7) is programmable for either top or side mounting of lamp heads. A 7/8" conduit entry is provided on the left side of the cabinet. The large cabinet (DS8, DS9 and D12S9) has a removable front panel and provisions for mounting to up to 3 heads.

##### Lamp

Thermoplastic heads can be top or side mounted (on DM or DS3, 6 and 7 only) and easily moved to either location by contractor without re-wiring.

**DM MODELS:** PAR 18 size heads.

2DM3 has 6W high intensity incandescent lamps. 2DM6, 7, 8, 9, 12 have 9W high intensity incandescent lamps.

**DS MODELS:** PAR 36 size heads. 2DS3 has 6W high intensity incandescent lamps. 2DS6, 7, 8, 9, 12 have 9W high intensity incandescent lamps.

*Note: Tungsten halogen lamps optional.*

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277 Vac, 60Hz, 0.3/0.15 Amp

#### OPTIONS

(Add Suffix to Model No.)

|  |            |        |
|--|------------|--------|
| Black Housing and Heads (small cabinet only) ..... | -B         | Suffix |
| Ammeter or Voltmeter (choose only one) .....       | -A or -V   |        |
| Time Delay .....                                   | -TD        |        |
| 3-Wire Cord and Plug .....                         | -3CP *     |        |
| 3-Wire Cord and Plug (277V) .....                  | -3CP-277 * |        |

\*Standard cord is 3 ft. custom lengths available.

#### ACCESSORIES

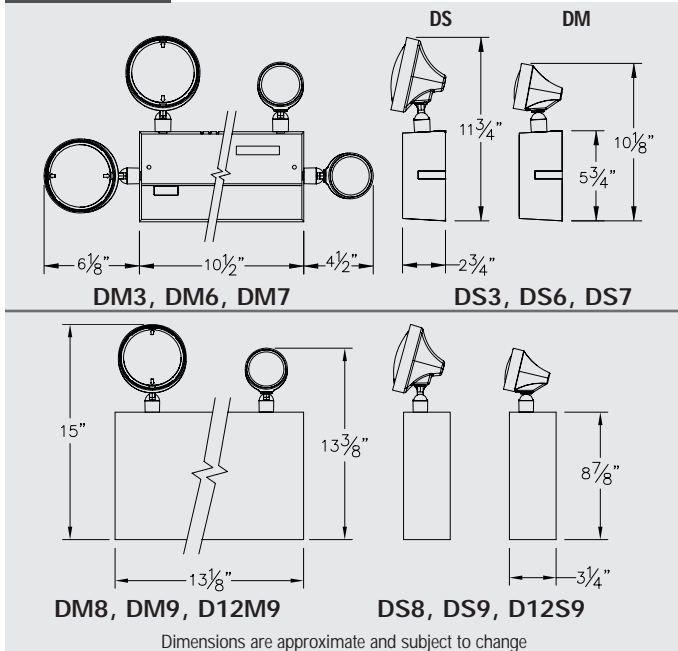
(Order as a separate item)

|   |          |
|---|----------|
| Wire Guard (Top mounted heads) .....        | WG1      |
| Wire Guard (Top mounted PAR 18 heads) ..... | WG10     |
| Wire Guard (Top mounted PAR 36 heads) ..... | WG4      |
| Vandal Resistant Cover .....                | CPS *    |
| Vandal Resistant NEMA-4X Cover .....        | CPS-4X * |

\*Small Cabinet only



#### DIMENSIONS



#### UNIT RATING CHART

| Volts | Model No.<br>(unit/Lamp Suffix) | *Watts to 87-1/2%<br>of Rated Battery Voltage |        |
|-------|---------------------------------|---|--------|
|       |                                 | 1-1/2 Hrs.                                    | 2 Hrs. |
| 6     | 2DS3/L5-M                       | 12  | 8      |
|       | 2DS6/L9-M                       | 18  | 12     |
|       | 2DS7/L9-M                       | 27  | 21     |
|       | **2DS8/L9-M                     | 36  | 24     |
|       | **2DS9/L9-M                     | 54  | 41     |
| 12    | **2D12S9/L9-M                   | 54  | 41     |

\*National Electrical Code Specification

Use "M" instead of "S" for Mini Heads (PAR18 size heads)

\*\* Utilize Large "A" Cabinet

#### ORDERING FORMAT

For standard units without options only order Model # Options are added to units by listing suffix at end of model #

| 2DS3         | /L5                                    | -M    | -TD                  |
|--------------|--|-------|----------------------|
| Model Number | Lamp Option<br>(6V 6W)<br>Incandescent | Color | Option<br>Time Delay |



## MG, MN Series

**6 or 12 Volt Steel Emergency Unit**  
**Sealed Maintenance-Free Lead Calcium or Nickel-Cadmium Battery**  
**UL Listed**

The MG, MN Series battery unit incorporates a complete range of high performance and labor saving features normally found only in higher voltage units. The compact housing design meets most requirements for moderate loads. The MG, MN Series is a reliable, economic unit for all public areas.

### FEATURES

#### Reliability

The MG, MN Series has a three-year full warranty (excluding lamps and fuses).

#### Unit Data

Compact steel cabinet with corrosion-resistant undercoating – standard color is “mist white”, black available as an option. The hinged front panel provides access to the battery and charger for ease of installation and maintenance. The MG, MN Series has rear keyhole mounting slots and is designed to mount directly to any standard 4” junction box.

#### Lamp

Standard unit furnished with two, Par 36 lighting heads constructed of impact resistant, flame retardant thermoplastic heads complete with 9-watt, high intensity incandescent lamps. Other lighting heads are also available, see options. Tungsten and MR16 halogen lamps are optional.

#### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

#### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

#### Power Requirements

120/277Vac 60Hz, 0.3/0.15 Amp

### OPTIONS

|   |             |
|---|-------------|
| (Add Suffix to Model No.)                         | Suffix      |
| Black Housing and Heads (Replace -M with -B)..... | -B          |
| Ammeter and/or Voltmeter .....                    | -A* or -V*  |
| Lamp Disconnect Switch .....                      | -DS**       |
| Improved Diagnostics (Lead-Calcium only) .....    | -ID         |
| Improved Diagnostics, Non-Audible .....           | -IDNA       |
| Time Delay (12 minutes).....                      | -TD**       |
| Vandal Resistant Screws.....                      | -VR         |
| Front Mounted Heads (for Low ceilings) .....      | -FM         |
| 3-Wire Cord & Plug.....                           | -3CP***     |
| 3-Wire Cord & Plug (277V).....                    | -3CP-277*** |
| PAR18 Size Lamp Heads .....                       | /ELF2       |
| DR1130 Decorative Heads (White).....              | /DR130      |

\* Not available with ID/IDNA option.

\*\* Not required when using the ID/IDNA option.

\*\*\*Standard cord is 3 ft. custom lengths available.

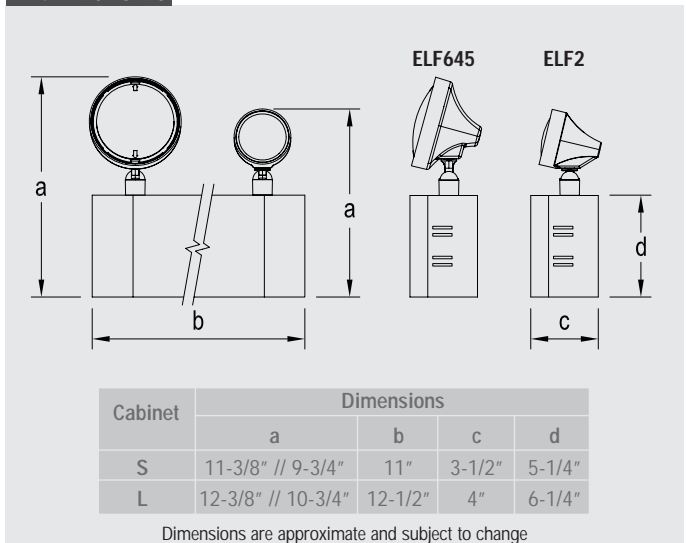
### ACCESSORIES

(Order as a separate item)

|  |        |
|--|--------|
| Mounting Platform .....                | MP-PQA |
| Wire Guard (S cabinet) .....           | WG1    |
| Wire Guard (L cabinet) .....           | WG2    |
| Wire Guard (Front mounted heads) ..... | WG10   |



### DIMENSIONS



### UNIT SELECTION CHART

|                | Volts | Model No. (unit/Lamp Suffix) | *Watts to 87-1/2% of Rated Battery Voltage |        |        |        | Cabinet Size |
|----------------|-------|------------------------------|--|--------|--------|--------|--------------|
|                |       |                              | 1-1/2 Hrs.                                 | 2 Hrs. | 3 Hrs. | 4 Hrs. |              |
| Lead Calcium   | 6     | 2MG1/L9-M                    | 27   | 18     | 14     | -      | S            |
|                |       | 2MG2/L9-M**                  | 54   | 37     | 28     | 21     | L            |
|                | 12    | 2M12G1/L13-M                 | 36   | 25     | 20     | 14     | S            |
|                |       | 2M12G2/L13-M**               | 54   | 37     | 28     | 21     | L            |
| Nickel-Cadmium | 6     | 2MN1/LH6-M                   | 25   | 18     | 12     | -      | S            |
|                | 12    | 2M12N1/LH3-M                 | 36   | 21     | 15     | 12     | S            |
|                |       | 2M12N2/LH3-M                 | 50   | 36     | 25     | 18     | S            |

\*National Electrical Code Specification

\*\*Do not exceed unit rating in voltage or capacity.

### ORDERING FORMAT

| 2            | MG     | 1                  | /L9                                  | -M                | -ID    |
|--------------|--------|--------------------|--------------------------------------|-------------------|--------|
| No. of Heads | Series | Capacity Indicator | Lamp Suffix<br>6V 9W<br>Incandescent | Mist White Finish | Option |

## PG, P12G Series

### 6 or 12 Volt Steel Emergency Unit Sealed Maintenance-Free Lead Calcium Battery UL Listed

The PG, P12G Series battery units combine reliability, versatility, performance and cost-efficiency in an aesthetically pleasing design. Ideally suited for a range of commercial applications.

#### FEATURES

##### Reliability

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

##### Unit Data

Constructed of rugged steel with a corrosion-resistant undercoating, the PG Series cabinet has a removable front panel providing easy access allowing the unit to be mounted at ceiling height. Standard unit color is "mist-white", but black housing and heads are also optional. All cabinets come standard with 7/8" conduit knockouts, rear keyhole mounting slots and provisions for mounting up to 3 heads on the cabinet.

##### Lamp

Standard unit furnished with two, Par 36 size, high impact mar-resistant thermoplastic heads with 9-watt high intensity incandescent lamps. Other lighting heads are also available, see options. Tungsten and MR16 halogen lamps optional.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.25/0.12 Amp, 30 Watts (Max)

#### OPTIONS

| (Add Suffix to Model No.)                    | Suffix      |
|--|-------------|
| Black Housing and Heads (Replace -M with -B) | -B          |
| Ammeter and/or Voltmeter                     | -A* or -V*  |
| Lamp Disconnect Switch                       | -DS**       |
| Improved Diagnostics                         | -ID         |
| Improved Diagnostics, Non-Audible            | -IDNA       |
| Time Delay                                   | -TD**       |
| Vandal Resistant Screws                      | -VR         |
| 3-Wire Cord & Plug                           | -3CP***     |
| 3-Wire Cord & Plug (277V)                    | -3CP-277*** |
| PAR18 Size Lamp Heads                        | /ELF2       |
| DR1130 Decorative Heads (White)              | /DR130      |

\*Not available with diagnostics.

\*\*Not required with ID/IDNA option.

\*\*\*Standard cord is 3 ft. custom lengths available.

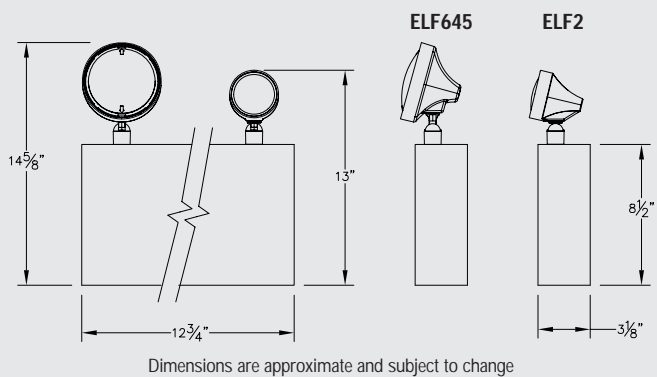
#### ACCESSORIES

(Order as a separate item)

|                   |        |
|-------------------|--------|
| Wire Guard        | WG2    |
| Mounting Platform | MP-PQA |



#### DIMENSIONS



#### UNIT SELECTION CHART

Each unit furnished with two 9W High Intensity incandescent lamp.

| Volts | Model No.<br>(unit/Lamp<br>Suffix) | *Watts to 87-12%<br>of Rated Battery Voltage |        |        |        |
|-------|------------------------------------|--|--------|--------|--------|
|       |                                    | 1-1/2 Hrs.                                   | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| 6     | 2PG1/L9-M                          | 18   | 15     | -      | -      |
|       | 2PG2/L9-M                          | 54   | 36     | 27     | 18     |
| 12    | 2P12G1/L9-M                        | 54   | 36     | 27     | 18     |

\*National Electrical Code Specification

#### ORDERING FORMAT

| 2               | PG     | 1                     | /L9                                     | -M                   | -DS                              |
|-----------------|--------|-----------------------|---|----------------------|----------------------------------|
| No. of<br>Heads | Series | Capacity<br>Indicator | Lamp<br>Suffix<br>6V 9W<br>Incandescent | Mist White<br>Finish | Option<br>(Disconnect<br>Switch) |

## PN, P12N Series

### 6 or 12 Volt Steel Emergency Unit Sealed Maintenance-Free Nickel-Cadmium Battery UL Listed

The PN, P12N Series battery unit is a traditionally styled, high performance unit, designed for environments where lighting units may be exposed to fluctuations in temperature.

#### FEATURES

##### Reliability

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

##### Unit Data

Constructed of rugged steel with a corrosion-resistant undercoating, the PN Series cabinet has a removable front panel providing easy access allowing the unit to be mounted at ceiling height. Standard unit color is "mist-white", but black housing and heads are also optional. All cabinets come standard with 7/8" conduit knockouts, rear keyhole mounting slots and provisions for mounting up to 3 heads on the cabinet. P12N complies with requirements of Federal Specifications W-L-305D Type 1, Class I, Style D.

##### Lamp

Standard unit furnished with two, Par 36 size, high impact mar-resistant thermoplastic heads with 9 or 12-watt high intensity incandescent lamps. The heads are fully adjustable horizontally and vertically. Other lighting heads are also available, see options. Tungsten and MR16 halogen lamps optional.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.30/0.15 Amp

#### OPTIONS

| (Add Suffix to Model No.)                      | Suffix       |
|--|--------------|
| Black Housing and Heads (Replace "-M" with -B) | -B           |
| Voltmeter                                      | -V *         |
| Ammeter  | -A *         |
| Lamp Disconnect Switch                         | -DS **       |
| Improved Diagnostics, Non-Audible              | -IDNA        |
| Time Delay (12 minutes)                        | -TD **       |
| Vandal Resistant Screws                        | -VR          |
| 3-Wire Cord and Plug                           | -3CP ***     |
| 3-Wire Cord and Plug (277V)                    | -3CP-277 *** |
| PAR18 Size Lamp Heads                          | /ELF2        |
| DR1130 Decorative Heads (White)                | /DR130       |

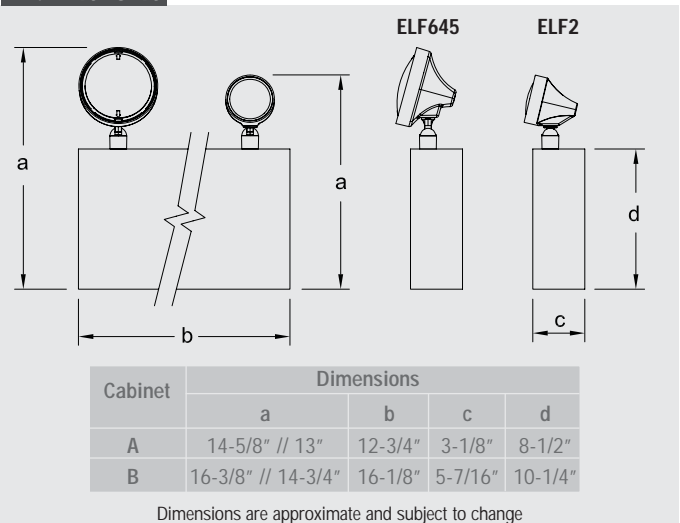
\*Not available with IDNA.

\*\*Not required with the ID/IDNA option.

\*\*\*Standard cord is 3 ft. custom lengths available.



#### DIMENSIONS



#### UNIT SELECTION CHART

Each unit furnished with two 9W High Intensity incandescent lamp.

| Volts | Model No.<br>(unit/Lamp<br>Suffix) | *Watts to 87-1/2%<br>of Rated Battery Voltage |        |        |        | Cabinet<br>Size |
|-------|------------------------------------|---|--------|--------|--------|-----------------|
|       |                                    | 1-1/2 Hrs.                                    | 2 Hrs. | 3 Hrs. | 4 Hrs. |                 |
| 6     | 2PN1/L9-M                          | 25  | 20     | 14     | 10     | A               |
|       | 2P12N1/L9-M                        | 50  | 36     | 25     | 18     | A               |
|       | 2P12N2/L9-M                        | 72  | 60     | 50     | 36     | B               |

\*National Electrical Code Specification

#### ORDERING FORMAT

| 2                      | P12N   | 2                     | /L9            | -M                   | -V                    |
|------------------------|--------|-----------------------|----------------|----------------------|-----------------------|
| No. of<br>Heads        | Series | Capacity<br>Indicator | Lamp<br>Suffix | Mist White<br>Finish | Option<br>(Voltmeter) |
| 12V 9W<br>Incandescent |        |                       |                |                      |                       |

#### ACCESSORIES

(Order as a separate item)

|                        |        |
|------------------------|--------|
| Wire Guard (A cabinet) | WG2    |
| Wire Guard (B cabinet) | WG3    |
| Mounting Platform      | MP-PQA |

## PQ, P12Q Series

### 6 or 12 Volt Steel Emergency Unit Sealed Maintenance-Free Lead Calcium Battery UL Listed

The PQ, P12Q Series battery unit is an effective, functional unit designed with high capacity maintenance-free batteries for commercial, institutional or industrial environments requiring remote capability or extended emergency lighting time.

#### FEATURES

##### Reliability

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

##### Unit Data

Constructed of rugged steel with a corrosion-resistant undercoating, the PQ Series cabinet has a removable front panel providing easy access allowing the unit to be mounted at various heights. Standard unit color is "mist-white", but black housing and heads are also optional. All cabinets come standard with 7/8" conduit knockouts, rear keyhole mounting slots and provisions for mounting up to 3 heads on the cabinet. Model 2PQ2 complies with requirements of Federal Specifications W-L-305D Type 1, Class I, Style E.

##### Lamp

Standard PQ Series units are furnished with two, Par 36 size, high impact mar-resistant thermoplastic heads with 25-watt high intensity incandescent lamps. The heads are fully adjustable horizontally and vertically. Other lighting heads are also available, see options. Tungsten and MR16 halogen lamps are also optional.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.30/0.15 Amp

#### OPTIONS

##### (Add Suffix to Model No.)

|  | Suffix       |
|--|--------------|
| Black Housing and Heads (Replace "-M" with -B) | -B           |
| Voltmeter                                      | -V *         |
| Ammeter  | -A *         |
| Improved Diagnostics                           | -ID          |
| Improved Diagnostics, Non-Audible              | -IDNA        |
| Lamp Disconnect Switch                         | -DS **       |
| Time Delay (12 minutes)                        | -TD **       |
| Vandal Resistant Screws                        | -VR          |
| 3-Wire Cord and Plug                           | -3CP ***     |
| 3-Wire Cord and Plug (277V)                    | -3CP-277 *** |
| PAR18 Size Lamp Heads                          | /ELF2        |
| DR1130 Decorative Heads (White)                | /DR130       |

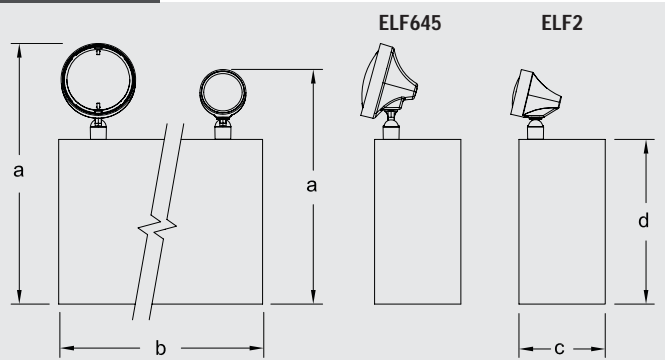
\*Voltmeter and ammeter not available with the ID/IDNA option.

\*\*Not required with the ID/IDNA option.

\*\*\*Standard cord is 3 ft. custom lengths available.



#### DIMENSIONS



| Cabinet | Dimensions         |         |         |         |
|---------|--------------------|---------|---------|---------|
|         | a                  | b       | c       | d       |
| B       | 16-3/8" // 14-3/4" | 16-1/8" | 5-7/16" | 10-1/4" |
| C       | 18-3/8" // 16-3/4" | 16-1/2" | 7-1/4"  | 12-1/4" |

Dimensions are approximate and subject to change

#### UNIT SELECTION CHART

Each unit furnished with two 25W High Intensity incandescent lamp.

| Volts | Model No.<br>(unit/Lamp<br>Suffix) | *Watts to 87-12%<br>of Rated Battery Voltage |        |        |        | Cabinet<br>Size |
|-------|------------------------------------|--|--------|--------|--------|-----------------|
|       |                                    | 1-1/2 Hrs.                                   | 2 Hrs. | 3 Hrs. | 4 Hrs. |                 |
| 6     | 2PQ2/L25-M                         | 100  | 75     | 50     | 36     | B               |
| 6     | 2PQ3/L25-M                         | 200  | 175    | 100    | 72     | C               |
| 12    | 2P12Q1/L25-M                       | 100  | 75     | 50     | 36     | B               |
|       | 2P12Q2/L25-M                       | 200  | 150    | 100    | 72     | C               |

\*National Electrical Code Specification

#### ORDERING FORMAT

| 2               | PQ     | 2                     | /L25                                     | -M                   | -V                    |
|-----------------|--------|-----------------------|--|----------------------|-----------------------|
| No. of<br>Heads | Series | Capacity<br>Indicator | Lamp<br>Suffix<br>6V 25W<br>Incandescent | Mist White<br>Finish | Option<br>(Voltmeter) |

#### ACCESSORIES

(Order as a separate item)

|                               |        |
|-------------------------------|--------|
| Wire Guard                    | WG3    |
| Mounting Platform (C cabinet) | MP-PQB |
| Mounting Platform (B cabinet) | MP-PQA |

## S12E Series

### 12 Volt Commercial/Industrial Emergency Unit Sealed Maintenance-Free, Lead-Calcium Battery UL Listed

The S12E Series battery unit is best suited for applications requiring high capacity maintenance-free batteries, multiple remote capabilities or extended operating times. The 12-volt battery allows for longer remote wiring runs.

#### FEATURES

##### Reliability

The S12E Series has a three-year full warranty (excluding lamps and fuses).

##### Unit Data

The battery and all components are housed in a heavy-duty steel cabinet, with a removable front access panel for ease of installation and maintenance. The standard cabinet finish will be gray enamel, but "mist-white" is also available (see options). All cabinets come standard with 7/8" conduit knockouts, rear keyhole mounting slots and provisions for mounting up to 3 heads on the cabinet. Mounting brackets and platforms are also available, see accessories.

##### Lamp

Standard S12E Series units are furnished with two, Par 36 size, high impact mar-resistant thermoplastic heads with 25-watt high intensity incandescent lamps. The heads are fully adjustable horizontally and vertically. Optional lamps are available.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.30/0.15 Amp

#### OPTIONS

##### (Add Suffix to Model No.)

|  | Suffix       |
|--|--------------|
| Voltmeter (Not available with diagnostics) ..... | -V           |
| Ammeter (Not available with diagnostics) .....   | -A           |
| Lamp Disconnect Switch .....                     | -DS **       |
| Time Delay (12 minutes) .....                    | -TD **       |
| Improved Diagnostics .....                       | -ID *        |
| Improved Diagnostics, Non-Audible .....          | -IDNA *      |
| 3-Wire Cord & Plug .....                         | -3CP ***     |
| 3-Wire Cord & Plug (277V) .....                  | -3CP-277 *** |
| Mist White Color (Replace -G with -M) .....      | -M           |

\*S12E4 and S12E5 only

\*\*Not required with ID/IDNA option.

\*\*\*Standard cord is 3 ft. custom lengths available.

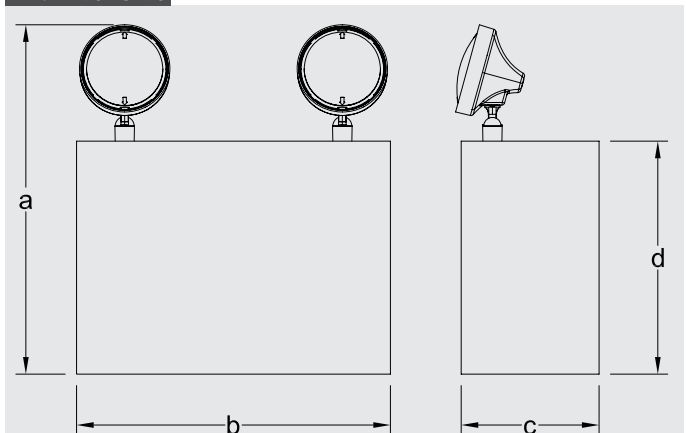
#### ACCESSORIES

##### (Order as a separate item)

|                                      |      |
|--------------------------------------|------|
| Wire Guard (S12E4) .....             | WG3  |
| Wire Guard (S12E5/S12E6) .....       | WG4  |
| Mounting Platform (S12E4).....       | MP-A |
| Mounting Platform (S12E5/S12E6)..... | MP12 |
| Mounting Bracket (S12E4) .....       | MB-A |



#### DIMENSIONS



| Cabinet | Dimensions |         |        |         |
|---------|------------|---------|--------|---------|
|         | a          | b       | c      | d       |
| C       | 18-3/8"    | 16-1/2" | 7-1/4" | 12-1/4" |
| D       | 18-3/8"    | 27"     | 7-1/4" | 12-1/4" |

Dimensions are approximate and subject to change

#### UNIT SELECTION CHART

| Volts | Model No.<br>(unit/Lamp<br>Suffix) | *Watts to 87-1/2%<br>of Rated Battery Voltage |        |        |        | Cabinet<br>Size |
|-------|------------------------------------|---|--------|--------|--------|-----------------|
|       |                                    | 1-1/2 Hrs.                                    | 2 Hrs. | 3 Hrs. | 4 Hrs. |                 |
| 12    | 2S12E4/L25-G                       | 200   | 150    | 107    | 85     | C               |
|       | 2S12E5/L25-G                       | 300   | 225    | 165    | 127    | D               |
|       | 2S12E6/L25-G                       | 400   | 300    | 214    | 170    | D               |

\*National Electrical Code Specification

#### ORDERING FORMAT

| 2               | S12E   | 4                     | /L25                    | -G                       | -V                    | -A                  |
|-----------------|--------|-----------------------|-------------------------|--------------------------|-----------------------|---------------------|
| No. of<br>Heads | Series | Capacity<br>Indicator | Lamp<br>Suffix          | Gray<br>Enamel<br>Finish | Option<br>(Voltmeter) | Option<br>(Ammeter) |
|                 |        |                       | 12V 25W<br>Incandescent |                          |                       |                     |

## S24E Series

### 24 Volt Commercial/Industrial Emergency Unit Sealed Maintenance-Free, Lead-Calcium Battery UL Listed



The S24E Series battery unit is best suited for applications requiring high capacity maintenance-free batteries, multiple remote capabilities or extended operating times. The 24-volt battery allows for longer remote wiring runs.

#### FEATURES

##### Reliability

The S24E Series has a three-year full warranty (excluding lamps and fuses).

##### Unit Data

The battery and all components are housed in a heavy-duty steel cabinet, with a removable front access panel for ease of installation and maintenance. The standard cabinet finish will be gray enamel, but "mist-white" is also available (see options). All cabinets come standard with 7/8" conduit knockouts, rear keyhole mounting slots and provisions for mounting up to 3 heads on the cabinet. Mounting brackets and platforms are also available, see accessories.

##### Lamp

Standard S24E Series units are furnished with two, Par 36 size, high impact mar-resistant thermoplastic heads with 25-watt high intensity incandescent lamps. The heads are fully adjustable horizontally and vertically. Optional lamps are available.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.3/0.15 Amp

#### OPTIONS

(Add Suffix to Model No.)

|  | Suffix      |
|--|-------------|
| Voltmeter (Not available with diagnostics) ..... | -V          |
| Ammeter (Not available with diagnostics) .....   | -A          |
| Lamp Disconnect Switch .....                     | -DS *       |
| Time Delay (12 minutes) .....                    | -TD *       |
| Improved Diagnostics .....                       | -ID         |
| Mist White Color (Replace -G with -M) .....      | -M          |
| 3-Wire Cord & Plug .....                         | -3CP **     |
| 3-Wire Cord & Plug (277V) .....                  | -3CP-277 ** |

\* Not required with ID option

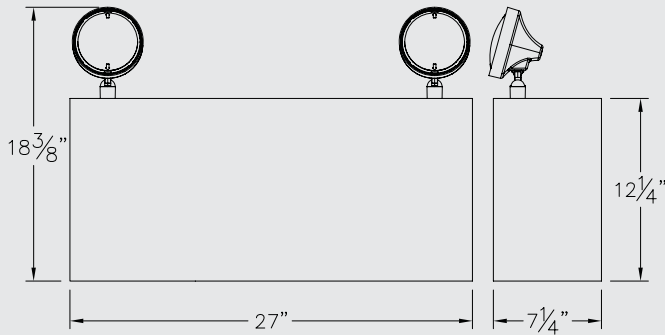
\*\*Standard cord is 3 ft. custom lengths available.

#### ACCESSORIES

(Order as a separate item)

|                         |       |
|-------------------------|-------|
| Wire Guard .....        | WG4   |
| Mounting Bracket .....  | MB-A  |
| Mounting Platform ..... | MP-12 |

#### DIMENSIONS



Dimensions are approximate and subject to change

#### UNIT SELECTION CHART

| Volts | Model No.<br>(unit/Lamp<br>Suffix) | *Watts to 87-1/2%<br>of Rated Battery Voltage |        |        |        |
|-------|------------------------------------|---|--------|--------|--------|
|       |                                    | 1-1/2 Hrs.                                    | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| 24    | S24E4/L28-G                        | 400   | 300    | 120    | 60     |

\*National Electrical Code Specification

#### ORDERING FORMAT

| 2               | S24E   | 4                     | /L28                                      | -G                       | -V                    |
|-----------------|--------|-----------------------|---|--------------------------|-----------------------|
| No. of<br>Heads | Series | Capacity<br>Indicator | Lamp<br>Suffix<br>24V 25W<br>Incandescent | Gray<br>Enamel<br>Finish | Option<br>(Voltmeter) |

## SL Series

### 6 Volt Emergency Unit with Remote Capability Long Life Wet Refillable Lead-Acid Battery UL Listed

The SL Series battery unit is offered where a reliable, long-life, low-maintenance wet battery unit is required. This series was designed for remote capability and offers a selection of battery capacities.

#### FEATURES

##### Reliability

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

##### Unit Data

Battery and all components are housed in a heavy-duty steel cabinet, with a removable front panel for ease of installation and servicing. The front panel includes a view port for visual inspection of the battery, which is encased in a clean, smooth container of transparent high impact material. The standard cabinet finish will be gray enamel, but "mist- white" is also available (see options). All cabinets come standard with 7/8" conduit knockouts, rear keyhole mounting slots and provisions for mounting up to 3 heads on the cabinet.

##### Lamp

Standard SL Series units are furnished with two, Par 36 size, high impact mar-resistant thermoplastic heads with 25-watt high intensity incandescent lamps. The heads are fully adjustable horizontally and vertically. Optional lamps are available.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.30/0.15 Amp

#### OPTIONS

| (Add Suffix to Model No.)                       | Suffix       |
|---|--------------|
| Voltmeter (Not available with diagnostics)..... | -V           |
| Ammeter (Not available with diagnostics).....   | -A           |
| Lamp Disconnect Switch.....                     | -DS **       |
| Time Delay (12 minutes).....                    | -TD **       |
| Improved Diagnostics.....                       | -ID *        |
| Improved Diagnostics, Non-Audible.....          | -IDNA *      |
| 3-Wire Cord & Plug.....                         | -3CP ***     |
| 3-Wire Cord & Plug (277V).....                  | -3CP-277 *** |
| Mist White Color (Replace -G with -M).....      | -M           |

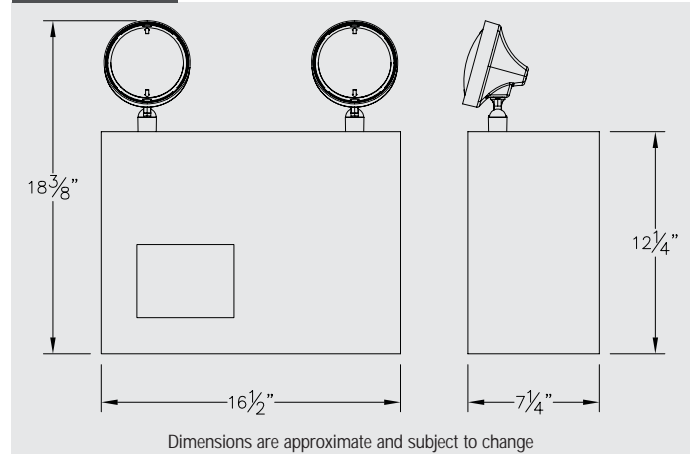
\*2SL3 only

\*\*Not required with ID/IDNA option.

\*\*\*Standard cord is 3 ft. custom lengths available.



#### DIMENSIONS



#### UNIT SELECTION CHART

| Volts | Model No.<br>(unit/Lamp<br>Suffix) | *Watts to 87-1/2%<br>of Rated Battery Voltage |        |        |        |
|-------|------------------------------------|---|--------|--------|--------|
|       |                                    | 1-1/2 Hrs.                                    | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| 6     | 2SL3/L25-G                         | 100   | 80     | 50     | 40     |
|       | 2SL9/L25-G                         | 200   | 150    | 125    | 100    |
|       | 2SL105/L25-G                       | 200   | 200    | 175    | 125    |

\*National Electrical Code Specification

#### ORDERING FORMAT

| 2               | SL     | 9                     | /L25                                     | -G                       | -V                    |
|-----------------|--------|-----------------------|--|--------------------------|-----------------------|
| No. of<br>Heads | Series | Capacity<br>Indicator | Lamp<br>Suffix<br>6V 25W<br>Incandescent | Gray<br>Enamel<br>Finish | Option<br>(Voltmeter) |

#### ACCESSORIES

| (Order as a separate item) | Suffix |
|----------------------------|--------|
| Mounting Platform.....     | MP-A   |
| Mounting Bracket.....      | MB-A   |
| Wire Guard.....            | WG3    |

## SN Series

### 6 Volt Emergency Unit with Remote Capability Long Life Wet Refillable Nickel-Cadmium Battery UL Listed

The SN Series battery unit was designed for industrial locations requiring long lasting emergency light units. Unit is available in a wide range of capacities, and offers the special advantages of the Nickel-Cadmium battery, including excellent recharging capabilities.

#### FEATURES

##### Reliability

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

##### Unit Data

The battery and all components are housed in a heavy-duty steel cabinet, with a removable front panel for ease of installation and servicing. The front panel includes a view port for visual inspection of the battery. The 6-volt, five cell pocket-plate Nickel-Cadmium battery is housed in translucent plastic cell containers. The standard cabinet finish will be gray enamel, but "mist-white" is also available (see options). All cabinets come standard with 7/8" conduit knockouts, rear keyhole mounting slots and provisions for mounting up to 3 heads on the cabinet. Mounting brackets and platforms are also available, see accessories.

##### Lamp

Standard SN Series units are furnished with two, Par 36 size, high impact mar-resistant thermoplastic heads with 25-watt high intensity incandescent lamps. The heads are fully adjustable horizontally and vertically. Optional lamps are available.

##### PulseType Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents overdischarge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allow for quick operational check of entire systems.

##### Power Requirements

120/277Vac, 60Hz, 0.3/0.15 Amp

#### OPTIONS

| (Add Suffix to Model No.)                     | Suffix     |
|---|------------|
| Mist White Color (Replace "-G" with -M) ..... | -M         |
| Voltmeter .....                               | -V         |
| Ammeter .....                                 | -A         |
| Lamp Disconnect Switch .....                  | -DS        |
| Time Delay (12 minutes) .....                 | -TD        |
| 3-Wire Cord & Plug .....                      | -3CP *     |
| 3-Wire Cord & Plug (277V) .....               | -3CP-277 * |

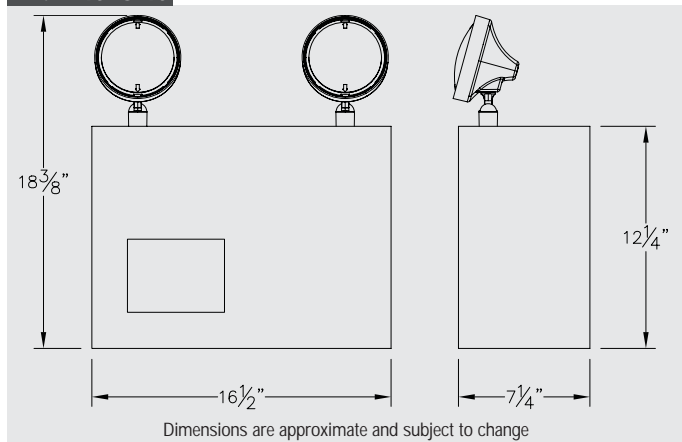
\*Standard cord is 3 ft. custom lengths available.

#### ACCESSORIES

| (Order as a separate item) | Suffix |
|----------------------------|--------|
| Wire Guard .....           | WG3    |
| Mounting Bracket .....     | MB-A   |
| Mounting Platform .....    | MP-A   |



#### DIMENSIONS



#### UNIT SELECTION CHART

| Volts | Model No. (unit/Lamp Suffix) | *Watts to 87-1/2% of Rated Battery Voltage |        |        |        |
|-------|------------------------------|--|--------|--------|--------|
|       |                              | 1-1/2 Hrs.                                 | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| 6     | 2SN2/L25-G                   | 50   | 45     | 25     | 18     |
|       | 2SN3/L25-G                   | 70   | 60     | 35     | 25     |
|       | 2SN4/L25-G                   | 100  | 80     | 50     | 35     |
|       | 2SN6/L25-G                   | 130  | 105    | 70     | 50     |
|       | 2SN7/L25-G                   | 160  | 130    | 80     | 60     |

\*National Electrical Code Specification

#### ORDERING FORMAT

| 2            | SN     | 4                  | /L25                                  | -G                 | -V                 |
|--------------|--------|--------------------|---------------------------------------|--------------------|--------------------|
| No. of Heads | Series | Capacity Indicator | Lamp Suffix<br>6V 25W<br>Incandescent | Gray Enamel Finish | Option (Voltmeter) |

## S12L Series

### 12 Volt Emergency Unit with Remote Capability Long Life Wet Refillable Lead-Acid Battery UL Listed

The S12L Series battery unit was designed for industrial areas requiring high capacity units with multiple remote capabilities.

#### FEATURES

##### Reliability

The S12L Series has a three-year full warranty (excluding lamps and fuses).

##### Unit Data

Battery and all components are housed in a heavy-duty steel cabinet, with a removable front panel for ease of installation and servicing. The front panel includes a view port for visual inspection of the battery, which is encased in a clean, smooth container of transparent high impact material. The standard cabinet finish will be gray enamel, but "mist- white" is also available (see options). All cabinets come standard with 7/8" conduit knockouts, rear keyhole mounting slots and provisions for mounting up to 3 heads on the cabinet. Mounting platform is also available, see accessories.

##### Lamp

Standard S12L Series units are furnished with two, Par 36 size, high impact mar-resistant thermoplastic heads with 25-watt high intensity incandescent lamps. The heads are fully adjustable horizontally and vertically. Optional lamps are available.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system

##### Power Requirements

120/277Vac 60Hz, 0.30/0.15 Amp

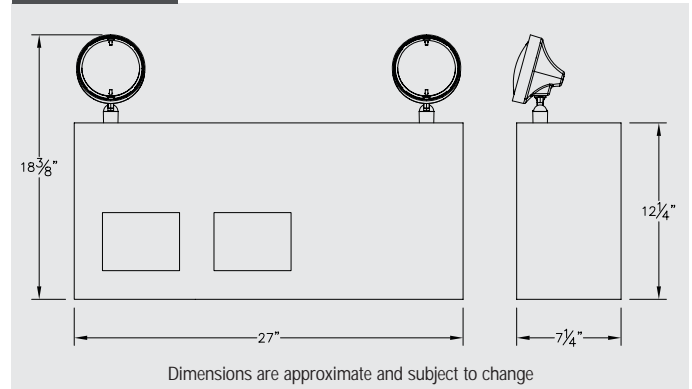
#### OPTIONS

| (Add Suffix to Model No.)                   | Suffix     |
|---|------------|
| Voltmeter .....                             | -V         |
| Ammeter .....                               | -A         |
| Lamp Disconnect Switch .....                | -DS        |
| Time Delay (12 minutes).....                | -TD        |
| 3-Wire Cord & Plug .....                    | -3CP *     |
| 3-Wire Cord & Plug (277V).....              | -3CP-277 * |
| Mist White Color (Replace -G with -M) ..... | -M         |

\*Standard cord is 3 ft. custom lengths available.



#### DIMENSIONS



#### UNIT SELECTION CHART

| Volts | Model No.<br>(unit/Lamp<br>Suffix) | *Watts to 87-1/2%<br>of Rated Battery Voltage |        |        |        |
|-------|------------------------------------|---|--------|--------|--------|
|       |                                    | 1-1/2 Hrs.                                    | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| 12    | 2S12L9/L25-G                       | 350   | 300    | 250    | 200    |
|       | 2S12L105/L25-G                     | 400   | 400    | 300    | 250    |

\*National Electrical Code Specification

#### ORDERING FORMAT

| 2               | S12L   | 9                     | /L25                                      | -V                              |
|-----------------|--------|-----------------------|---|---------------------------------|
| No. of<br>Heads | Series | Capacity<br>Indicator | Lamp<br>Suffix<br>12V 25W<br>Incandescent | Option<br>(Voltmeter)<br>Suffix |

#### ACCESSORIES

|                            |        |
|----------------------------|--------|
| (Order as a separate item) | Suffix |
| Wire Guard .....           | WG4    |
| Mounting Platform.....     | MP12   |



## S12N Series

### 12 Volt Emergency Unit with Remote Capability Long Life Wet Refillable Nickel-Cadmium Battery UL Listed

The S12N Series battery units are excellent high capacity units – ideal where extended run times may be required or remote fixtures/exits will be connected. This unit will provide excellent performance over extended temperature ranges.

#### FEATURES

##### Reliability

The S12N Series has a three-year full warranty (excluding lamps and fuses).

##### Unit Data

Battery and all components are housed in a heavy-duty steel cabinet, with a removable front panel for ease of installation and servicing. The front panel includes a view port for visual inspection of the battery, which is encased in a clean, smooth container of transparent high impact material. Gray enamel is the standard cabinet finish. All cabinets come standard with 7/8" conduit knockouts, rear keyhole mounting slots and provisions for mounting up to 3 heads on the cabinet. Mounting platform is also available, see accessories.

##### Lamp

Standard S12N Series units are furnished with two, Par 36 size, high impact mar-resistant thermoplastic heads with 25-watt high intensity incandescent lamps. The heads are fully adjustable horizontally and vertically. Optional lamps are available.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.30/0.15 Amp

#### OPTIONS

|  |            |
|--|------------|
| (Add Suffix to Model No.)                  | Suffix     |
| Voltmeter.....                             | -V         |
| Ammeter.....                               | -A         |
| Lamp Disconnect switch.....                | -DS        |
| Time delay (12 minutes).....               | -TD        |
| Mist White Color (Replace -G with -M)..... | -M         |
| 3-Wire Cord & Plug.....                    | -3CP *     |
| 3-Wire Cord & Plug (277V).....             | -3CP-277 * |

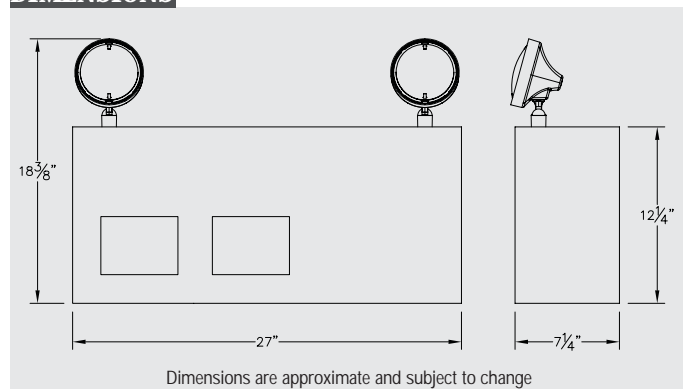
\*Standard cord is 3 ft. custom lengths available.

#### ACCESSORIES

(Order as a separate item)

|                        |      |
|------------------------|------|
| Wire Guard.....        | WG4  |
| Mounting Platform..... | MP12 |

#### DIMENSIONS



#### UNIT SELECTION CHART

| Volts | Model No.<br>(unit/Lamp<br>Suffix) | *Watts to 87-1/2%<br>of Rated Battery Voltage |        |        |        |
|-------|------------------------------------|---|--------|--------|--------|
|       |                                    | 1-1/2 Hrs.                                    | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| 12    | 2S12N2/L25-G                       | 100   | 90     | 50     | 35     |
|       | 2S12N3/L25-G                       | 140   | 120    | 70     | 50     |
|       | 2S12N4/L25-G                       | 200   | 160    | 100    | 70     |
|       | 2S12N6/L25-G                       | 260   | 210    | 150    | 100    |
|       | 2S12N7/L25-G                       | 320   | 260    | 170    | 120    |

\*National Electrical Code Specification

#### ORDERING FORMAT

|              |             |                    |  |                    |                    |
|--------------|-------------|--------------------|--|--------------------|--------------------|
| <b>2</b>     | <b>S12N</b> | <b>3</b>           | <b>/L25</b>                            | <b>-G</b>          | <b>-V</b>          |
| No. of Heads | Series      | Capacity Indicator | Lamp Suffix<br>12V 25W<br>Incandescent | Gray Enamel Finish | Option (Voltmeter) |



## S24N Series

### 24 Volt Commercial/Industrial Emergency Unit Long-Life Wet Refillable Nickel-Cadmium Battery UL Listed

The S24N Series battery unit is best suited for applications where extended run times are required, and/or remote fixtures or exits will be connected. Unit offers excellent recharging capabilities and superior performance over extended temperature ranges.

#### FEATURES

##### Reliability

The S24N Series has a three-year full warranty (excluding lamps and fuses).

##### Unit Data

The battery and all components are housed in a heavy-duty steel cabinet, with a removable front access panel for ease of installation and maintenance. The standard cabinet finish will be gray enamel, but "mist-white" is also available (see options). All cabinets come standard with 7/8" conduit knockouts, rear keyhole mounting slots and provisions for mounting up to 3 heads on the cabinet. Mounting platform is also available, see accessories.

##### Lamp

Standard S24N Series units are furnished with two, Par 36 size, high impact mar-resistant thermoplastic heads with 25-watt high intensity incandescent lamps. The heads are fully adjustable horizontally and vertically. Optional lamps are available.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.3/0.15 Amp

#### OPTIONS

| (Add Suffix to Model No.)       | Suffix     |
|---------------------------------|------------|
| Voltmeter .....                 | -V         |
| Ammeter .....                   | -A         |
| Lamp Disconnect Switch .....    | -DS        |
| Time delay (12 minutes).....    | -TD        |
| 3-Wire Cord & Plug.....         | -3CP *     |
| 3-Wire Cord & Plug (277V) ..... | -3CP-277 * |

\*Standard cord is 3 ft. custom lengths available.

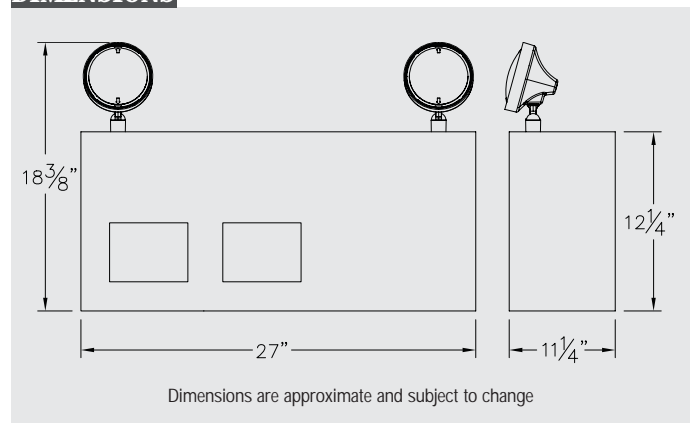
#### ACCESSORIES

(Order as a separate item)

|                         |       |
|-------------------------|-------|
| Wire Guard .....        | WG4   |
| Mounting Platform ..... | MP-12 |



#### DIMENSIONS



#### UNIT SELECTION CHART

| Volts | Model No.<br>(unit/Lamp<br>Suffix) | *Watts to 87-1/2%<br>of Rated Battery Voltage |        |        |        |
|-------|------------------------------------|---|--------|--------|--------|
|       |                                    | 1-1/2 Hrs.                                    | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| 24    | 2S24N4/L28-G                       | 400   | 300    | 120    | 60     |

\*National Electrical Code Specification

#### ORDERING FORMAT

| 2            | S24N   | 4                  | /L28                                   | -G                 | -V                 |
|--------------|--------|--------------------|--|--------------------|--------------------|
| No. of Heads | Series | Capacity Indicator | Lamp Suffix<br>24V 25W<br>Incandescent | Gray Enamel Finish | Option (Voltmeter) |



## WP Series

### 6 or 12 Volt Weatherproof Emergency Unit Maintenance-Free Lead-Calcium, Wet Refillable Lead Acid or Wet Refillable Nickel-Cadmium Battery

The WP Series battery unit is designed with a special enclosure for applications where a weatherproof unit is required.

#### FEATURES

##### Reliability

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

##### Unit Data

The housing is constructed of heavy-duty steel with front access to the battery and all components. The housing has a galvanized undercoating and baked gray enamel finish. Knockout and controls are concealed at bottom of housing. Welded mounting brackets are provided on top of case.

##### Lamp

Standard WP Series units are furnished with two, Par 36 size, high impact mar-resistant thermoplastic heads suitable for external use, furnished with high intensity incandescent lamps. The heads are fully adjustable horizontally and vertically. Optional lamps are available.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.3/0.15 Amp

#### OPTIONS

(Add Suffix to Model No.)

|                                     | Suffix       |
|-------------------------------------|--------------|
| Voltmeter .....                     | -V           |
| Ammeter .....                       | -A           |
| Thermal Jacket (120V Heater) .....  | -H1          |
| Thermal Jacket (277V Heater) .....  | -H2          |
| Time Delay (12 minutes) .....       | -TD          |
| Lamp Disconnect Switch .....        | -DS          |
| 3-Wire Cord & Plug Kit .....        | WP-3CP *     |
| 3-Wire Cord & Plug (277V) Kit ..... | WP-3CP-277 * |

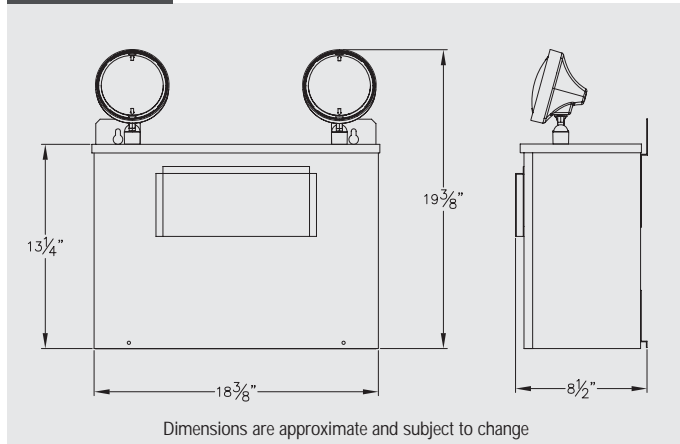
\*Standard cord is 3 ft. custom lengths available.

#### ACCESSORIES

(Order as a separate item)

Wire Guard.....WG4

#### DIMENSIONS



Dimensions are approximate and subject to change

#### UNIT SELECTION CHART

| Volts | Model No. (unit/Lamp Suffix) | Battery Type   | *Watts to 87-1/2% of Rated Battery Voltage |        |        |        |
|-------|------------------------------|----------------|--|--------|--------|--------|
|       |                              |                | 1-1/2 Hrs.                                 | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| 6     | 2SL3-WP/4510                 | Lead-Acid      | 100  | 80     | 50     | 40     |
|       | 2SL9-WP/4510                 |                | 200  | 150    | 125    | 100    |
|       | 2SL105-WP/4510               |                | 200  | 200    | 175    | 125    |
| 12    | 2B12L-3-WP/4446              |                | 170  | 150    | 100    | 75     |
| 6     | 2SN2-WP/4510                 | Nickel-Cadmium | 50   | 45     | 25     | 18     |
|       | 2SN3-WP/4510                 |                | 70   | 60     | 35     | 25     |
|       | 2SN4-WP/4510                 |                | 100  | 80     | 50     | 35     |
|       | 2SN6-WP/4510                 |                | 130  | 105    | 70     | 50     |
|       | 2SN7-WP/4510                 |                | 160  | 130    | 80     | 60     |
| 12    | 2S12E4-WP/4446               | Sealed Lead    | 200  | 150    | 100    | 75     |
|       | 2S12E5-WP/4446               | Lead           | 300  | 225    | 110    | 110    |
|       | 2S12E6-WP/4446               | Calcium        | 400  | 300    | 150    | 150    |

\*National Electrical Code Specification

Note: Above capacity ratings are subject to an ambient of 50 to 85 degrees. Extremes of temperatures beyond this range will have a detrimental effect on the specified ratings. For extreme cold, use of a thermal jacket is recommended.

#### ORDERING FORMAT

| 2            | SL     | 9                  | -WP                           | /4510                                 | -V                 |
|--------------|--------|--------------------|-------------------------------|---------------------------------------|--------------------|
| No. of Heads | Series | Capacity Indicator | Weatherproof Enclosure Series | Lamp Suffix<br>6V 25W<br>Incandescent | Option (Voltmeter) |

## FG, F12G Series

### 6, 12 or 24 Volt Weather and Corrosion-Resistant Emergency Unit

### Sealed Maintenance-free Lead Calcium or Nickel-Cadmium Battery

### UL Listed

The FG Series battery unit was designed for industrial applications, especially for installations in a corrosive atmosphere. This enclosure is fully gasketed and is furnished with stainless steel hardware.

#### FEATURES

##### Reliability

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

##### Unit Data

The housing is a molded gray high impact thermoplastic case, featuring oil, water and dust-tight construction, stainless steel hardware, single piece neoprene gasket and vented battery compartment. External mounting feet are provided. Conduit entry can be made with a punch, drill or hole saw.

##### Lamp

FG Series unit is furnished standard with two, Par 36 size, high-impact mar-resistant thermoplastic heads, with Par 36 sealed beam lamps. The heads are mounted to the front of the case and are fully adjustable horizontally and vertically. Optional lamps are available.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.3/0.15 Amp

#### OPTIONS

##### (Add Suffix to Model No.)

|  | Suffix       |
|--|--------------|
| Voltmeter (not required with diagnostics)..... | -V *         |
| Ammeter (not required with diagnostics).....   | -A *         |
| Improved Diagnostics (Lead-Calcium only).....  | -ID          |
| Improved Diagnostics, Non-Audible.....         | -IDNA        |
| Time Delay (12 minutes).....                   | -TD **       |
| Thermal Jacket (120V Heater).....              | -H1          |
| Thermal Jacket (277V Heater).....              | -H2          |
| Lamp Disconnect Switch.....                    | -DS **       |
| Phototest Switch.....                          | -PTS         |
| 3-Wire Cord & Plug (120V).....                 | -3CP ***     |
| 3-Wire Cord & Plug (277V).....                 | -3CP-277 *** |

\*Choose either a Voltmeter or an Ammeter.

\*\*Not required with ID-IDNA option.

\*\*\*Standard cord is 3 ft. custom lengths available.

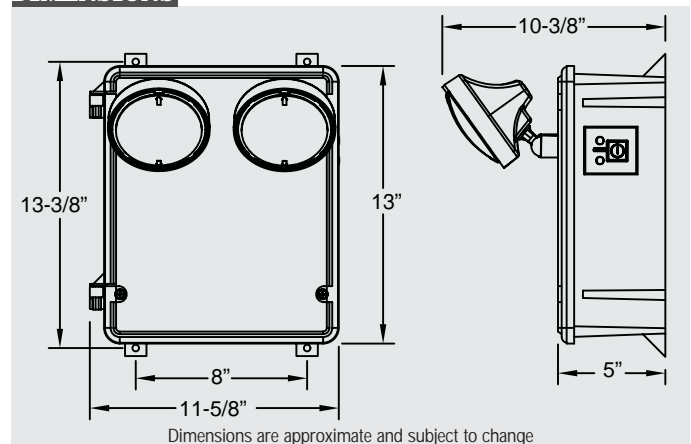
#### ACCESSORIES

##### (Order as a separate item)

Wire Guard.....WG3



#### DIMENSIONS



Dimensions are approximate and subject to change

#### UNIT SELECTION CHART

Each unit furnished with two 25W High Intensity incandescent lamp.

| Volts | Model No. (unit/Lamp Suffix) | Battery Type                         | *Watts to 87-1/2% of Rated Battery Voltage |        |        |
|-------|------------------------------|--------------------------------------|--|--------|--------|
|       |                              |                                      | 1-1/2 Hrs.                                 | 2 Hrs. | 3 Hrs. |
| 6     | 2FG1/4510                    | Sealed Maintenance-Free Lead-Calcium | 50   | 36     | 25     |
|       | 2FG2/4510                    |                                      | 100  | 75     | 50     |
| 12    | 2F12G1/4446                  |                                      | 50   | 36     | 25     |
|       | 2F12G2/4446                  |                                      | 100  | 75     | 50     |
| 12    | 2F12N1/4446                  | Nickel-Cadmium                       | 50   | 36     | 18     |
| 24    | 2F24N2/4446                  |                                      | 100  | 73     | 37     |

\*National Electrical Code Specification

#### ORDERING FORMAT

| 2            | FG     | 1                  | /4510                                 | -V                    |
|--------------|--------|--------------------|---------------------------------------|-----------------------|
| No. of Heads | Series | Capacity Indicator | Lamp Suffix<br>6V 25W<br>Incandescent | Option<br>(Voltmeter) |



## ECN, E12CN, ENN, E12NN Series

### 6 or 12 Volt NEMA Industrial Emergency Unit Sealed Maintenance-free Lead Calcium or Nickel-Cadmium Battery

Series meets requirements for operation under  
NEMA 1, 2, 3, 3R, 3S, 4, 4X, 12 and 13 conditions

This NEMA Industrial emergency lighting unit series are designed for use in hostile environments where the presence of water, fibers, dirt, dust and corrosive gases can be potentially damaging to internal components

#### FEATURES

##### Reliability

The ECN, ENN (6 volt), E12CN and E12NN (12 volt) Series have a three-year full warranty (excluding lamps and fuses).

##### Unit Data

All units are housed in water and corrosion resistant cabinets constructed from glass-reinforced structural foam. Cabinets are silicone sealed and/or gasketed around all entryways, push-to-test switch is completely enclosed and corrosion resistant bushing is provided for field installed conduit entry. Breather devices allow for ventilation of battery gases without admitting damaging elements. All external hardware is stainless steel. A unique door-hinging device allows for removal of door panel or retention of the hinge by means of a small field adjustment.

##### Lamp

Units are equipped with a choice of standard incandescent or halogen sealed beam lamps. Lamps are housed in gray, industrial thermoplastic shells with matching swivels. Lamp housings are rain-tight and corrosion resistant. Wire connections are silicone sealed.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.3/0.15 Amp

#### OPTIONS

|                                    |              |
|------------------------------------|--------------|
| (Add Suffix to Model No.)          | Suffix       |
| Time Delay (12 minutes).....       | -TD          |
| Voltmeter .....                    | -V           |
| Ammeter .....                      | -A           |
| Lamp Disconnect Switch .....       | -DS          |
| Thermal Jacket (120V Heater) ..... | -H1          |
| Thermal Jacket (277V Heater) ..... | -H2          |
| Cord & Plug Kit (120V) .....       | WP-3CP *     |
| Cord & Plug Kit (277V) .....       | WP-3CP-277 * |

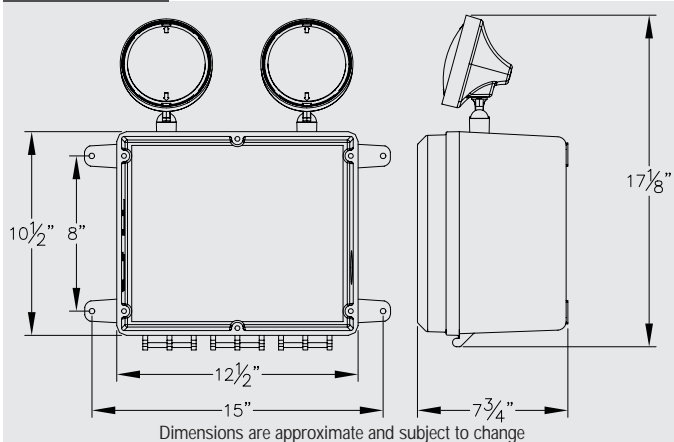
\*Standard cord is 3 ft. custom lengths available.

#### ACCESSORIES

(Order as a separate item)

Wire Guard.....WG3

#### DIMENSIONS



#### UNIT SELECTION CHART

| Volts | Model No.<br>(unit/Lamp<br>Suffix) | Battery<br>Type        | Input<br>Watts | *Watts to 87-1/2%<br>of Rated Battery Voltage |        |        |        |
|-------|------------------------------------|------------------------|----------------|---|--------|--------|--------|
|       |                                    |                        |                | 1-1/2 Hrs.                                    | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| 6     | 2ECN25                             | Sealed<br>Lead-Calcium | 18             | 25  | 20     | 15     | 12     |
|       | 2ECN50                             |                        | 18             | 50  | 40     | 30     | 22     |
|       | 2ECN100                            |                        | 40             | 100   | 75     | 50     | 36     |
|       | 2ENN25                             | Sealed                 | 18             | 25  | 20     | 15     | 12     |
|       | 2ENN50                             | Nickel-Cadmium         | 18             | 50  | 40     | 28     | 22     |
| 12    | 2E12CN50                           | Sealed Lead-Calcium    | 18             | 50  | 40     | 30     | 22     |
|       | 2E12NN50                           | Sealed Nickel-Calcium  | 18             | 50  | 40     | 28     | 22     |

\*National Electrical Code Specification

#### LAMP SELECTION CHART

|  | DC<br>Voltage | Lamp<br>Wattage | Lumen<br>Output | Lamp Type | Lamp Suffix<br>(Add to Unit Model No.) |
|--|---------------|-----------------|-----------------|-----------|--|
| Use With 6-Volt<br>ECN, ENN Series         | 6             | 8               | 180             | Halogen   | H7551                                  |
|  | 6             | 18              | 220             | Incand.   | 4014                                   |
|  | 6             | 25              | 350             | Incand.   | 4510                                   |
| Use with 12-Volt<br>E12CN,<br>E12NN Series | 12            | 8               | 180             | Halogen   | H7555                                  |
|  | 12            | 18              | 220             | Incand.   | 4414                                   |
|  | 12            | 25              | 350             | Incand.   | 4446                                   |

#### ORDERING FORMAT

|              |            |                       |                                 |                       |
|--------------|------------|-----------------------|---------------------------------|-----------------------|
| <b>2</b>     | <b>ECN</b> | <b>100</b>            | <b>/H7551</b>                   | <b>-V</b>             |
| No. of Heads | Series     | Capacity<br>Indicator | Lamp Suffix<br>6V 8W<br>Halogen | Option<br>(Voltmeter) |

# Severe™ XV Combo Series

**6 or 12 Volt Weather and Corrosion-Resistant Emergency Unit  
Maintenance-Free Nickel Cadmium Battery**

**UL Listed**

**UL Listed for wet and damp locations  
(+10°C to +40°C) (+50°F to +104°F)**

The Severe™ XV Combo Series is designed and engineered with style in mind and sets new standards for emergency lighting in today's toughest environments. The Severe XV is suitable for industrial and commercial applications as well as all public facilities.

## FEATURES

### Reliability

The Severe™ XV Combo Series has a five-year full warranty (excluding lamps and fuses).

### Unit Data

The Severe XV Series combo Nema-4X rated housing can withstand moisture, dust and corrosion. The faceplates are molded of heavy-duty, vandal-resistant polycarbonate and the rugged UV-stabilized thermoplastic body will not dent, peel or corrode. The combo unit is equipped with stainless steel tamper-proof screws. A special bit is provided with every unit. The combo comes in a choice of three colors: mist white, black or gray. The Severe XV combo comes standard with a universal mount canopy kit allowing the unit to be end, ceiling or wall-mounted. A universal knockout pattern allows direct mounting on the junction box. Knockouts are also available for conduit entry and are located on the top and both sides of the unit.

### Light Source

An innovative, fully field adjustable lamp head assembly offers the choice of MR16 halogen lamps up to 12V, 12W or high-efficiency, 5-watt, MR16 LED lamps. Long life, energy efficient ALINGAP technology red LED illuminated EXIT legend is Energy Star compliant.

### Charger

The Severe XV Series Combo unit is equipped with the fully automatic Lightalarms Integrated Diagnostic micro-controller board. The micro-controller tests, detects and indicates battery, charger circuitry, lamps or LED strip failures. An external LED signals a general service alarm while an internal diagnostic LED display indicates the nature of failure. The board is factory preset to non-audible diagnostic and a 15 minutes time delay. These functions can be enabled or disabled during installation. The equipment comes standard with a dual voltage input of 120/277 Vac.

## OPTIONS

|  |        |
|--|--------|
| (Add Suffix to Model No.)  | Suffix |
| Cold Weather Location<br>(-40°C to +25°C) (-40°F to +77°F) ..... | CW4*   |
| Fire Alarm Activated Flasher .....                               | FAF    |
| Flasher/Buzzer (AC power failure) .....                          | FB**   |
| Flasher (AC power failure) .....                                 | FL     |
| Canopy Pendant Mount .....                                       | CM     |

\*Available in 12E1 version only.

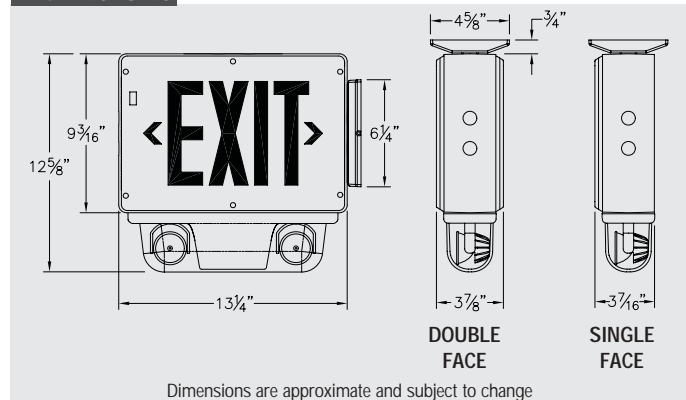
\*\*Not available with ("DA" Audible Diagnostics)

## ORDERING FORMAT

| WW   | XV            | 12E                         | 1                                | R                                  | D   | 4X             | 2   | M6  | CW4  |
|--|---------------|-----------------------------|----------------------------------|------------------------------------|---|----------------|---|---|--|
| <b>Housing/Face Color</b>  | <b>Series</b> | <b>Capacity</b>             | <b>Faces</b>                     | <b>Letter Color</b>                | <b>Diagnostics</b>  | <b>Housing</b> | <b># of Heads</b>   | <b>Lamp/Wattage</b>   | <b>Option</b>  |
| Blank= black/black<br>BW= black/white<br>BA= black/aluminum<br>WW= white/white<br>WB= white/black<br>WA= white/aluminum<br>GA= gray/aluminum<br>GW= gray/white<br>GB= gray/black | XV            | 12E= 6V-12W<br>24E= 12V-24W | 1= single face<br>2= double face | R= red letters<br>G= green letters | D= improved diagnostics<br>non-audible(standard)<br>DA= improved<br>diagnostics - audible | 4X= NEMA-4X    | 0= 0 heads*<br>2= two heads<br><br>* Remote<br>Lamp(s) must<br>be connected | M6= MR16,<br>6V-6W<br>M12= MR16,<br>12V-12W<br>L5= LED,<br>12V-5W | Blank= no options<br>*CW4=<br>cold weather<br>*Available in 12E1<br>version only |



## DIMENSIONS



## POWER CONSUMPTION CHART

| Model               | AC Specs         |             |               |
|---------------------|------------------|-------------|---------------|
| XV12E               | 120/277Vac, 60Hz | 0.12/0.06 A | Less than 13W |
| XV24E               | 120/277Vac, 60Hz | 0.18/0.08 A | Less than 20W |
| Cold Weather Option | 120/277Vac, 60Hz | 0.20/0.09 A | Less than 24W |

## UNIT SELECTION CHART

| Sealed Maintenance-Free Battery Type | Input Power                        | Output Voltage | Total Outputpower for Emergency Heads |
|--------------------------------------|------------------------------------|----------------|---------------------------------------|
| Nickel-Cadmium                       | 120/277V, 60HZ, 0.12/0.06A, 13/13W | 6Vdc           | 12W                                   |
|                                      | 120/277V, 60HZ, 0.17/0.08A, 19/19W | 12Vdc          | 24W                                   |

## ACCESSORIES

(Order as a separate item)  
Additional Special Bit for Tamper-proof Screw .....TPB

## Severe™ V Series



**6 or 12 Volt Nema-4X Emergency Battery Unit  
Sealed Maintenance-Free Lead-Calcium or Nickel  
Cadmium Battery**

**UL Listed**

**UL Listed for wet and damp locations  
(-40°C to +40°C) (-40°F to +104°F)**

The Severe™ V Series was designed for use in commercial as well as industrial heavy-duty environments, such as hose-down areas, food-processing facilities, parking garages as well as harsh environments. This battery unit will deliver unsurpassed pathway illumination – up to 70 feet center-to-center with 2-20 Watt MR16-IR lamps.

### FEATURES

#### Reliability

The Severe™ V Series battery unit has a three-year full warranty (excluding lamps and fuses).

#### Unit Data

The equipment is constructed of a fully gasketed die-cast aluminum back plate and an equipment frame of industrial grade thermoplastic with a gasket around the lens and canopy, specifically designed for harsh environments. The front of the unit is protected by a clear, heavy-duty, vandal-resistant UV stabilized polycarbonate, fixed with tamper-proof screws. Each battery unit comes standard with non-audible improved diagnostic charger board, 15 minute time delay and lamp disconnect as well as tamper-proof screws and bit. The housings are available in three colors, mist-white, black or gray. The standard unit can be wall mounted on a 4-inch junction box, although a universal bracket is available as an accessory for mounting on poles, beams or strut metal framing. Units with Nickel-Cadmium batteries are listed for damp and wet locations (+10°C to +40°C/+50°F to +104°F). Available as a remote fixture, refer to Severe ELF650 Series in the Remote Fixtures section.

#### Light Source

Fully field adjustable lamp head assembly offers the choice of MR16 halogen lamps up to 12V, 20W-IR or high-efficiency, 5-watt, MR16 LED lamps. The unit supplies 90 minutes of emergency operation.

#### Charger

The Severe V Series Emergency Battery Unit is equipped with a fully automatic Improved Diagnostic Micro-controller based circuitry. The Micro-controller tests, detects and indicates any malfunction or failure of the battery, charger circuitry, or lamps. An external LED signals a general service alarm, while four internal diagnostic LED's indicate the nature of failure. The board is factory preset to non-audible diagnostic and a 15 minutes time delay. These functions can be enabled or disabled during installation. The equipment comes standard with a dual voltage input of 120/277Vac.

### OPTIONS

(Add Suffix to Model No.)

Suffix

Cold Weather Location (-40°C to +40°C) (-40°F to +104°F).....CW4 \*

\*Available on 2V12G1 (24W) and 2V12G2 (36W) Lead-Calcium Battery Unit Only.

### ACCESSORIES

(Order as a separate item)

Additional Special Bit for Tamper-proof Screws.....TPB

Universal Bracket for Mounting on Poles,

I-Beams or Superstrut® Structures.....PMK



### POWER CONSUMPTION CHART

| AC Specification      |                  |                |                 |
|-----------------------|------------------|----------------|-----------------|
| Unit Type             | Voltage          | Current (Max.) | Effective Power |
| Standard              | 120/277Vac, 60Hz | 0.2/0.11 A     | Less than 20W   |
| Cold weather (option) | 120/277Vac, 60Hz | 0.7/0.35 A     | Less than 100W  |

### UNIT RATING CHART

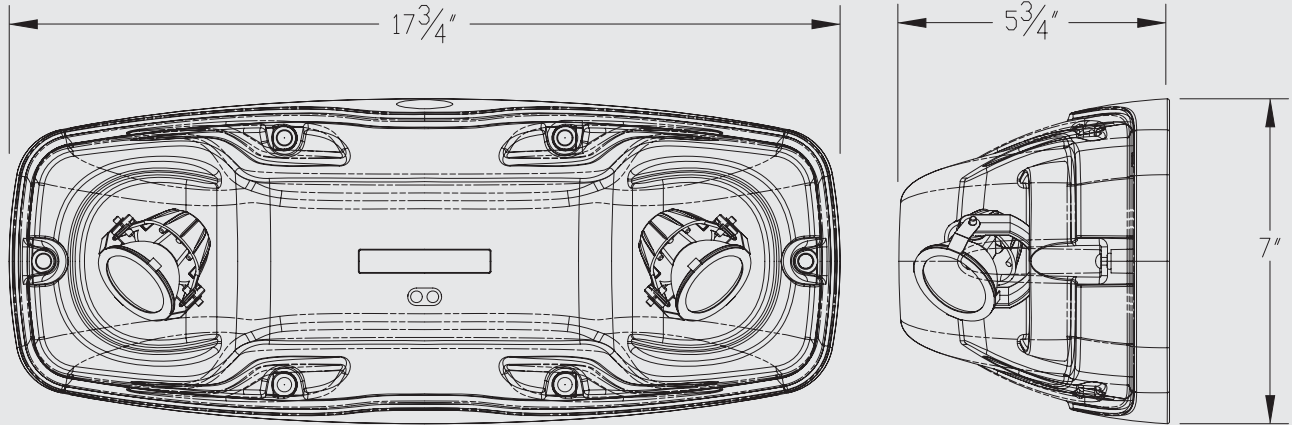
Furnished standard with two 9 watt High Intensity Incandescent lamps.

| UNIT EQUIPMENT - WITH REMOTE CAPABILITY |  |        |        |        |
|---|--|--------|--------|--------|
| Sealed Maintenance-Free Battery Types   | *Watts to 87-1/2% of Rated Battery Voltage |        |        |        |
|   | 1-1/2 Hrs.                                 | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| Lead-Calcium                            | 18   | 12     | -      | -      |
|   | 24   | 16     | 12     | -      |
|   | 36   | 24     | 20     | 14     |
|   | 54   | 36     | 27     | 20     |
| Nickel-Cadmium**                        | 24   | 18     | 12     | -      |

\*National Electrical Code Specification

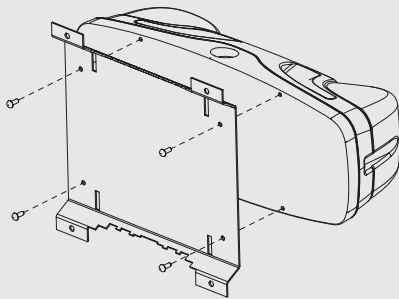
\*\*Listed for Wet and Damp Location

## DIMENSIONS

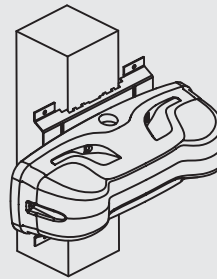


Dimensions are approximate and subject to change

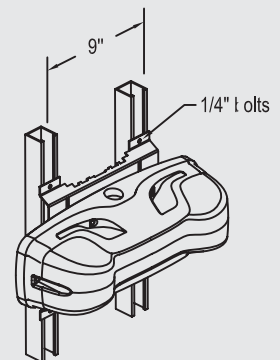
## UNIVERSAL MOUNTING BRACKETS



PMK KIT (screws included)



Beam Mounting



Superstrut Mounting

## ORDERING FORMAT

| <b>2</b>   | <b>V12G2</b>  | <b>/M12</b>   | <b>-B</b>                          | <b>-D</b>  |  |
|------------|---|---|------------------------------------|--|--|
| # of Heads | Series  | Lamps   | Color                              | Charger  | Options  |
| 2= 2 heads | VG1= 6V-18W, Lead-Calcium<br>V12G1= 12V-24W, Lead-Calcium<br>V12N1= 12V-24W, Nickel-Cadmium<br>V12G2= 12V-36W, Lead-Calcium<br>V12G3= 12V-54W, Lead-Calcium | /L5= LED 12V-5W<br>/M6= 6V-6W, MR16<br>/M12= 12V-12W, MR16<br>/MH20= 12V-20W, MR16-IR | -B= Black<br>-G= Gray<br>-M= White | -D= Improved Diagnostic<br>Non-Audible (Standard)<br>-DA= Improved Diagnostic<br>Audible | <b>Blank</b> = No Options<br><b>-CW4</b> = Cold Weather*<br>(-40°C to +40°C)<br>*Only Available with<br>V12G1 & V12G2. |

Hazardous areas are those in which a potential for explosion or fire exists, due to the presence of certain gases, liquid vapors, combustible dusts or fiber particles suspended in the air. The National Electrical Code®, NEMA, OSHA, UL, NFPA Life Safety Standards, as well as State and Local codes, prescribe the use of emergency lighting equipment. This equipment itself must not contribute to the ignition of flammable or explosive substances, present in the location. LightAlarms offers a complete line of emergency lighting equipment for use in hazardous locations.

## Hazardous Location Classifications

- Class I** (NEC-500-5) Areas in which flammable gases or vapors may be present in sufficient quantities to be explosive or ignitable.
- Class II** (NEC-500-6) Areas made hazardous by the presence of combustible dust.
- Class III** (NEC-500-7) Areas in which there are easily ignitable fibers or flyings present, due to the type of material being handled, stored or processed-but in which such fibers or flyings are not likely to be in suspension in the air in quantities sufficient to produce ignitable mixtures.
- Division 1** (NEC-500-5, 6 & 7) **Normal Situation:** A hazard is present in the everyday normal production operation or during frequent repair and/or maintenance activity.
- Division 2** (NEC-500-5, 6 & 7) **Abnormal Situation:** Potentially hazardous material is expected to be safely confined within closed containers or closed systems, and will be present in the atmosphere only through accidental rupture, breakage, or abnormal operation.
- Group A, B, C & D** (NEC-500-3) **Gases and vapors in Class I locations** are classified into four groups, by the code A, B, C, and D. These materials are grouped according to the ignition temperature of the substance, its explosion pressure and other flammability characteristics.
- Groups E, F & G** (NEC-500-3) Combustible dust in Class II locations are classified according to ignition temperature and the conductivity of the hazardous substance.

## Typical Class I Locations:

- Petroleum refineries, and gasoline storage and dispensing areas.
- Industrial firms that use flammable liquids in dip tanks for cleaning parts or other operations
- Petrochemical companies that manufacture chemicals from gas and oil.
- Dry cleaning plants where vapors from cleaning fluids can be present.
- Companies that have areas dedicated for spraying products with paint or plastics.
- Aircraft hangars and fuel servicing areas.
- Utility gas plants, and operations involving storage and handling of liquified petroleum gas or natural gas.

## Typical Class II Locations:

- Grain elevators, flour and feed mills.
- Plants that manufacture, use or store magnesium or aluminum powders.
- Plants that have chemical or metallurgical processes, producers of plastics, medicines, and fireworks etc.
- Producers of starch or candies.
- Spice grinding plants, sugar plants and cocoa plants.
- Coal preparation plants and other carbon handling or processing areas.

## Typical Class III Locations:

- Textile mills, cotton gins, cotton seed mills and flax processing plants.
- Clothing manufacturing plants
- Any plant that shapes pulverizes or cuts wood and creates saw dust or shavings.

FOR MORE INFORMATION CONSULT NEC CODE.

## NEMA ENCLOSURES

- Type 1 -** Intended for use indoors primarily to prevent accidental contact of personnel with the enclosed equipment.
- Type 2 -** Intended for use indoors to protect the enclosed equipment against falling non-corrosive liquids and falling dirt.
- Type 3 -** Intended for use outdoors to protect the enclosed equipment against rain, windblown dust, sleet and external ice formation.
- Type 3R -** Intended for use outdoors to protect the enclosed equipment against falling rain, sleet and external ice formation.
- Type 4 -** Intended for use indoors and outdoors to protect the enclosed equipment against windblown dust, rain, splashing water and hose directed water.
- Type 5 -** Intended for indoor use primarily to protect against dust and falling dirt.
- Type 6 -** Intended for indoor or outdoor use primarily to provide a degree of protection against the entry of water during occasional temporary submersion at a limited depth.
- Type 6P -** Intended for indoor or outdoor use primarily to provide a degree of protection against the entry of water during prolonged submersion at a limited depth.
- Type 7 -** Intended for use indoors in locations classified as Class I, Groups A, B, C, or D as defined in the National Electrical Code®.
- Type 8 -** Intended for indoor or outdoor use in locations classified as Class I, Groups A, B, C, & D as defined in the National Electrical Code®.
- Type 9 -** Intended for indoor locations classified as Class II, Groups E, F & G, as defined in the National Electrical Code®.
- Type 10 -** Enclosures are constructed to meet the applicable requirements of the Mine Safety and Health Administration.
- Type 11 -** Intended for indoor use primarily to provide, by oil immersion, a degree of protection to enclosed equipment against the corrosive effects of liquids and gases.
- Type 12 -** Intended for indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping noncorrosive liquids.
- Type 12K -** Enclosure with knockouts intended for indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping non-corrosive liquids other than at knockouts.
- Type 13 -** Intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil, and noncorrosive coolant.



## EL, E12L Series

### 6 or 12 Volt, Class I, Division 2 Emergency Unit Sealed Maintenance-Free Lead Calcium battery UL Listed

This series of self-contained emergency lighting units are designed to meet the specific requirements of Class I, Division 2 hazardous areas, Groups A, B, C and D.

Typical Applications: Manufacturing or Chemical Plants, Paint Shops, Wet or Corrosive Areas and Food Processing Areas\*.

\*Shatter resistant Teflon lamp coating optional.

#### FEATURES

##### Reliability

The EL, E12L Series has a three-year full warranty (excluding lamps and fuses).

##### Unit Data

All units are housed in water and corrosion resistant cabinets constructed from glass reinforced structural foam and are fully sealed and gasketed. External electrical components, including test switch and indicator light, are explosion proof in design and exceed requirements for Class I, Division 2, Group A, B, C & D. The battery compartment is vented by a one-way breather device to permit exhaust of battery gases and relief of internal pressure without admitting external moisture or corrosives. For temperature codes, please contact factory.

##### Lamp

Units are equipped with a choice of standard incandescent or halogen sealed beam lamps. Lamps are housed in gray, industrial thermoplastic shells with matching swivels. Lamp housings are rain-tight and corrosion resistant. Wire connections are silicone sealed.

##### Pulse Type Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

##### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

##### Power Requirements

120/277Vac 60Hz, 0.3/0.15 Amp

#### OPTIONS

(Add Suffix to Model No.)

|   |       |        |
|---|-------|--------|
| Time Delay (12 minutes).....              | -TD   | Suffix |
| Thermal Jacket (120 Volt Heater).....     | -H1   |        |
| Thermal Jacket (277 Volt Heater).....     | -H2   |        |
| Shatter Resistant Teflon Coated Lens..... | -FP * |        |

#### ACCESSORIES

(Order as a separate item)

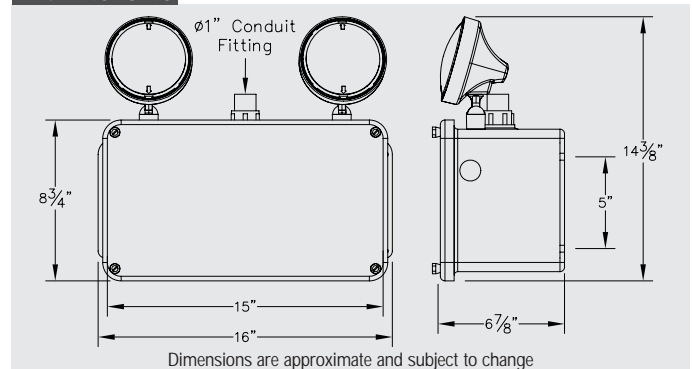
Wire Guard.....WG3

#### ORDERING FORMAT

|            |           |                    |                                 |                        |
|------------|-----------|--------------------|---------------------------------|------------------------|
| <b>2</b>   | <b>EL</b> | <b>24</b>          | <b>/H7551</b>                   | <b>-TD</b>             |
| # of Heads | Series    | Capacity Indicator | Lamp Suffix<br>6V 8W<br>Halogen | Option<br>(Time Delay) |



#### DIMENSIONS



#### LAMP SELECTION CHART

|                  | Lamp Wattage | DC Voltage | Lumen Output | Lamp Type    | Lamp Suffix<br>(Add to Unit Model No.) |
|------------------|--------------|------------|--------------|--------------|--|
| Use With 6-Volt  | 8            | 6          | 180          | Halogen      | H7551                                  |
| 2EL24 Series     | 9            | 6          | 220          | Incandescent | 7613                                   |
| Use With 12-Volt | 8            | 12         | 350          | Halogen      | H7555                                  |
| 2E12L56 Series   | 12           | 12         | 180          | Incandescent | 4044                                   |

#### UNIT SELECTION CHART

| Volts | Unit Model No. | Battery Type | Input Watts | *Watts to 87-1/2% of Rated Battery Voltage |        |        |        |
|-------|----------------|--------------|-------------|--|--------|--------|--------|
|       |                |              |             | 1-1/2 Hrs.                                 | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| 6     | 2EL24          | Lead-Calcium | 24          | 24   | 18     | 10     | 6      |
| 12    | 2E12L56        | Lead-Calcium | 24          | 56   | 37     | 21     | 12     |

\*National Electrical Code Specification

#### STANDARD FEATURE (ALL MODELS)

Radius of Protection: 2 ft.  
Normal Life Span: 1 yr.

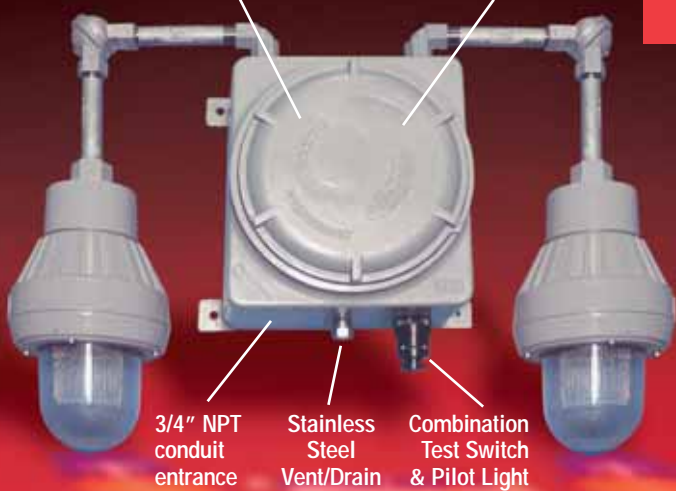


#### VC2-1 Vapor Capsule

Stahlin Vapor Capsules contain a unique vapor phase inhibitor designed to protect metallic surfaces within an enclosure against airborne corrosion. By simply placing these self-contained capsules inside an enclosure the vapors readily permeate every point, passivating all metallic surfaces. When the capsule is removed from its sealed package, it begins to emit an invisible, non-toxic vapor which is diffused throughout the surrounding atmosphere until the air is saturated. The vapor then passivates the metal surfaces against atmospheric corrosion by reducing the electro-chemical activity of the metal surfaces.



Spin-off gasketed cover      Copper-free cast aluminum



3/4" NPT  
conduit  
entrance      Stainless  
Steel  
Vent/Drain      Combination  
Test Switch  
& Pilot Light

## 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)

### UNIT SELECTION CHART

| Volts | Model No.<br>(unit/Lamp<br>Suffix) | Input<br>Watts | *Watts to 87-1/2%<br>of Rated Battery Voltage |        |        |        |        |
|-------|------------------------------------|----------------|---|--------|--------|--------|--------|
|       |                                    |                | 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

### OPTIONS

(Add Suffix to Model No.)

Time Delay.....-TD      Suffix

### ORDERING FORMAT

Example 1: System with 2 lamp fixtures only

**EXP6N36      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

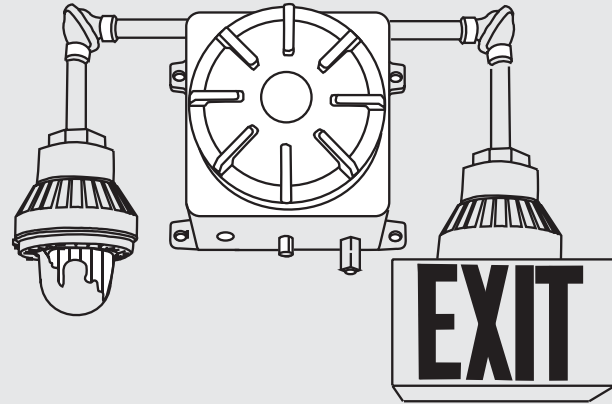
### LAMP SELECTION CHART

| Lamp Type                     | Voltage | Watts | Replacement # | Suffix |
|-------------------------------|---------|-------|---------------|--------|
| 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.

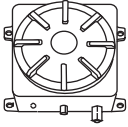
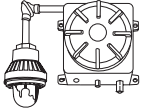
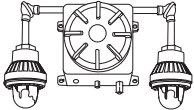
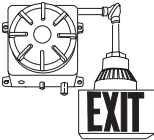
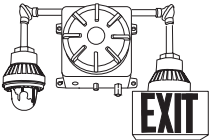
### DIMENSIONS

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"



Dimensions are approximate and subject to change

### Standard Configurations For EXP Series

| Unit   | Catalog Number                                 | Description   |
|--|--|---|
| <br>(Remote capability) | EXP12N50TS<br>(Remote capability)              | 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.  |
|                         | EXP6N50E402/LH1<br>EXP6N50E402/LH1-TS          | Single head unit with 6 volt, 15 watt HIT lamp.<br>Single head unit with 6V lamp and transfer switch.   |
|                         | EXP6N50E402/L9-2<br>EXP6N50E402/L9-TS-2        | 6 volt self-contained hazardous area emergency lighting power units complete with battery and charger and two heads.<br>Each fixture supplied with one 9 watt DCB lamp.<br>6V self contained hazardous area emergency lighting.<br>Power unit complete with battery, charger, 2 heads and transfer switch.  |
|                         | EXP6N25TSX402R                                 | 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.<br>For green, substitute G for R. For double face, substitute 2X402 for X402. |
|                         | EXP6N50E402/LH1TSX402<br>EXP6N50E402LH1TSX402R | 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.<br><br>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.



EFXPP= Adjustable Pendant Mount

EFXPC= Ceiling Mount



EFXPW= Wall Bracket Mount

## X402 Series

### Explosion-Proof, Remote Exit Sign Fixture

For operation in Hazardous and/or Wet locations

AC or DC Operation

Class I, Divisions 1 & 2, Groups C & D (300W PS-25 max)

Class II, Divisions 1 & 2, Groups E, F & G (60W max)

Class III, Division 1 & 2 (150W max)

Lighting Fixture complies with NEC, OSHA and NEMA specifications for all above Classes and Groups and is UL listed for use in Paint Spray areas (75W max)

These Remote Emergency Exit signs are designed for mounting in locations that are remote from their power source.

### FEATURES

#### Reliability

The X402 Series has a three-year full warranty (excluding lamps and fuses).

#### Unit Data

The X402 fixtures are manufactured of heavy cast aluminum with Pyrex\*\* lenses. All attached hardware was designed for explosion-proof applications. The exit housing is heavy-duty steel box with a gray baked enamel finish. Stenciled exit lettering is available on one or two faces. The legend is available in red or green lettering and meets UL 924 with respect to brush stroke and width. All X402 series exit signs have extra large down-light openings. They can be wall, ceiling or pendant mount. The X402 Series of exit signs are designed for mounting in locations that are **Remote from their Power source\***. They are offered with 6, 12, and 24 Volt lamps for DC operation.

\*If power source is installed outside hazardous areas, the length of connection wires should be carefully considered to assure that voltage of emergency power unit and wire size of connecting circuit are adequate to offset voltage drop in circuit.

\*\*Registered trademark of Corning Glass

### OPTIONS

(Add Suffix to Model No.)

Suffix

Open face panels with special symbols or legends.....**Contact Factory**

3 sided exit face triangle .....**3F**

(Unbreakable 3 sided white acrylic triangle with easy mounting to regular explosion-proof lighting fixture. Open design permits full air circulation for cool operation and provides excellent down light. 6" high EXIT letters with red 3/4" stroke on white background meets all safety specification. Directional Arrows included).

Single Face Exit = X402W or X402C or X402P

Double Face Exit = 2X402W or 2X402C or 2X402P

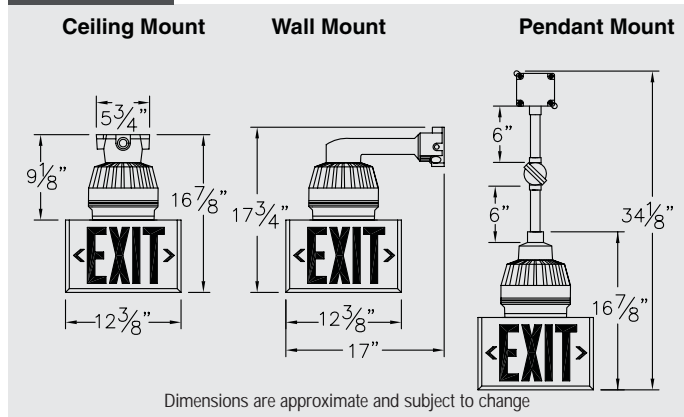
### LAMP SELECTION CHART

| Lamp Type     | Voltage | Power | Lamp Type | Average Life (hours) | Suffix | Replacement Part # |
|---------------|---------|-------|-----------|----------------------|--------|--------------------|
| Quartz Bi-Pin | 6V      | 15W   | JC-6V15W  | 2,000                | LH1    | 580.0086           |
| Medium Base   | 12V     | 25W   | 25A-12    | 1,000                | XX12   | 570.0071           |
|               | 24V     | 25W   | 143A      | 1,000                | XX24   | 580.0118           |
|               | 120V    | 25W   | A19       | 2,500                | AC     | 570.0136           |

### ORDERING FORMAT

|               |   |           |   |          |
|---------------|---|-----------|---|----------|
| <b>2X402W</b> | - | <b>6</b>  | - | <b>R</b> |
| Model         |   | Lamp Type |   | Red Lens |

### DIMENSIONS



### TRANSFER CIRCUIT

(not designed for hazardous areas)

TS panels should be considered for remote explosion-proof fixtures that are NORMALLY ON as constant operation fixtures.

Panels are available for 25, 50, 75, or 100 watt. Maximum load (6V max. 50W, 12V max. 100W, 24V max. 200W) .

To Order Model TS

To make the proper TS selection, the following information is required:

- 1) DC output voltage of emergency lighting system MUST be matched to DC input of TS panel load.
- 2) Number of fixtures to be connected to TS panel.
- 3) Total wattage of fixtures to be connected to TS panel.

NOTE: For normally-on applications (e.g. exit signs) use only long-life lamp (XX) Series.

#### How to Order Transfer Panel

120 / 12 - TS - 50  
AC DC Model Watts  
Input Output

(For multi-phase monitoring, contact factory)

#### Mounting

The transfer circuit is not designed for use in hazardous or explosive areas.

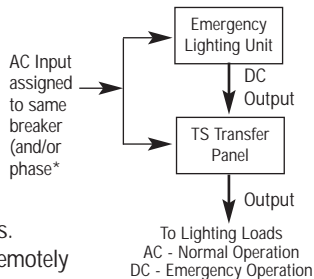
The transfer circuit is to be mounted remotely from hazardous areas.

#### Electrical Specifications for Transfer Panel

Input Voltage: From AC - 120 Volt, 60Hz, 1 phase (other voltages available).  
From DC - 6, 12, 24 or 120 Volt (select).

Output Voltage: Must be identical to DC Input Voltage

Wattage: Panel oversized 10-20% greater than total connected load.



## EPF401 Series

**Explosion-Proof, Remote Lighting Fixture**  
**For operation in Hazardous and/or Wet locations**  
**AC or DC Operation**

**EPF401 Fixtures are designed for mounting in locations that are remote from their power source\*. They are offered with 6, 12, and 24-volt lamps for DC operation.**

**Lighting Fixture complies with NEC, OSHA and NEMA specifications for all above Classes and Groups and is UL listed for use in Paint Spray areas (75W max)**

### FEATURES

#### Reliability

The EPF401 Series has a three-year full warranty (excluding lamps and fuses).

#### Unit Data

The EPF401 series fixtures are manufactured of heavy cast aluminum with Pyrex\*\* lenses. All attached hardware was designed for explosion-proof applications. Single and double pendant mount fixtures include elbows, swivels, a conduit extension pipe (6 inch increments) and a combination explosion-proof junction box/mounting plate. They can be wall, ceiling or pendant mount. The EPF401 Series are designed for mounting in locations that are **Remote from their Power source\***. They are offered with 6, 12, and 24 Volt lamps for DC operation.

\*If power source is installed outside hazardous areas, the length of connection wires should be carefully considered to assure that voltage of emergency power unit and wire size of connecting circuit are adequate to offset voltage drop in circuit.

\*\*Registered trademark of Corning Glass

### OPTIONS

(Add Suffix to Model No.)

**Angle Reflector** Highly reflective white finish inside and out. Attaches to globe holder ring with four screws.....-AG



**Dome Reflector** Highly reflective white finish inside and out. Attaches to globe holder ring with four screws.....-DM



**Guard** One-piece aluminum casting construction. Attaches to globe holder ring with four screws .....-GD



### LAMP SELECTION CHART

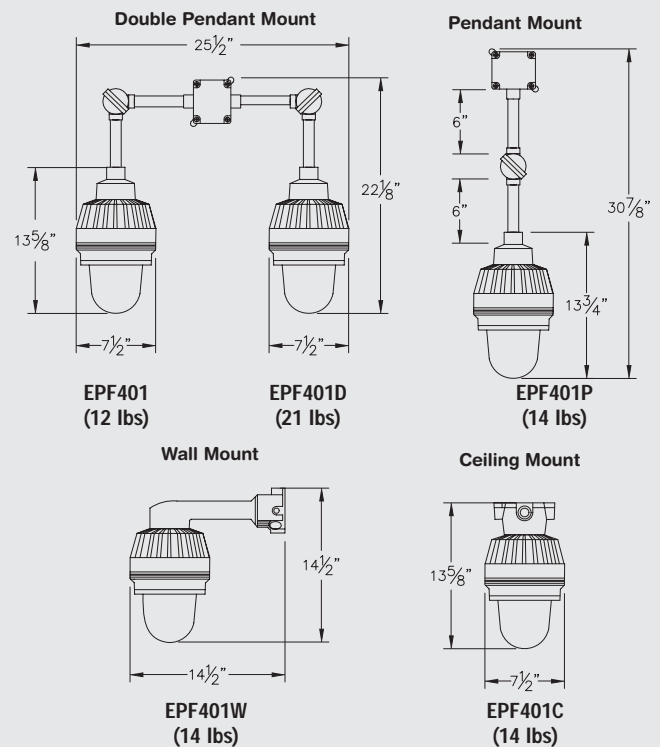
| Lamp Type                     | Voltage | Watts | Replacement # | Suffix |
|-------------------------------|---------|-------|---------------|--------|
| High Intensity Tungsten (HIT) | 6V      | 9W    | 135           | L9     |
|                               | 6V      | 18W   | 136           | L18    |
|                               | 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.



For AC or DC Operation

### DIMENSIONS



Dimensions are approximate and subject to change

### ORDERING FORMAT

|               |            |              |           |
|---------------|------------|--------------|-----------|
| <b>EPF401</b> | <b>W</b>   | <b>/ L25</b> | <b>12</b> |
| Model         | Wall Mount | Lamp Suffix  | Voltage   |

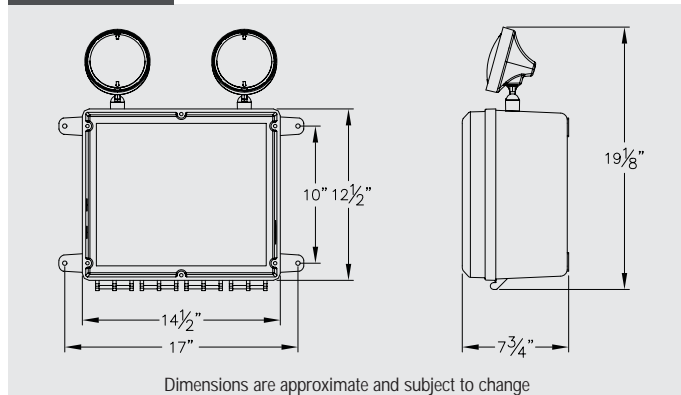


## EC, E12C, EN, E12N Series

**6 or 12 Volt Emergency Lighting Unit  
For Operation in Hazardous Areas  
Class I, Division 2, Groups C & D  
Class II, Division 2, Groups E & F  
Sealed Maintenance-free Lead Calcium or  
Nickel-Cadmium Battery  
Series meets requirements for operation under  
NEMA 1, 2, 3, 3R, 3S, 4, 4X, 12 and 13 conditions**

This Series of emergency lighting units are designed to meet the specific requirements of Division 2 Hazardous areas. Typical applications include any location where flammable materials are stored, handled or pumped, adjacent areas where separation could break down under abnormal conditions.

### DIMENSIONS



### FEATURES

#### Reliability

The EC, E12C, EN and E12N Series have a three-year full warranty (excluding lamps and fuses).

#### Unit Data

All units are housed in water and corrosion resistant cabinets constructed from glass-reinforced structural foam. Cabinets fully sealed and gasketed and all external hardware is stainless steel. Door covers are hinged in such a way to permit either retention of the hinge when opened or complete removal of the door. All external electrical components, including test switch and indicator light, are explosion proof in design and exceed requirements for Division 2 areas. The battery compartment is vented by a one-way breather device to permit exhaust of battery gases and relief of internal pressure without admitting external moisture or corrosives.

#### Lamp

Units are equipped with a choice of standard incandescent or halogen sealed beam lamps. Lamps are housed in gray, industrial thermoplastic shells with matching swivels. Lamp housings are rain-tight and corrosion resistant. Wire connections are silicone sealed.

#### PulseType Charger

- Automatic, temperature compensated, pulse type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.

#### Controls

- Red charger monitor LED indicates state of charge of the battery.
- Amber AC-ON LED indicates AC power is on.
- Momentary test switch allows for quick operational check of entire system.

#### Power Requirements

120/277Vac 60Hz, 0.3/0.15 Amp

### OPTIONS

(Add Suffix to Model No.)

Time Delay (12 min.).....-TD

Shatter Resistant Lamp Coating.....-FP

### ACCESSORIES

(Order as a separate item)

Wire Guard .....WG3

### LAMP SELECTION CHART

|                                       | Lamp Wattage | DC Voltage | Lumen Output | Lamp Type | Lamp Suffix<br>(Add to Unit Model No.) |
|---------------------------------------|--------------|------------|--------------|-----------|--|
| Use With 6-Volt<br>EC, EN Series      | 8            | 6          | 180          | Halogen   | H7551                                  |
|                                       | 18           | 6          | 220          | Incand.   | 4014                                   |
|                                       | 25           | 6          | 350          | Incand.   | 4510                                   |
| Use with 12-Volt<br>E12C, E12N Series | 8            | 12         | 180          | Halogen   | H7555                                  |
|                                       | 18           | 12         | 220          | Incand.   | 4414                                   |
|                                       | 25           | 12         | 350          | Incand.   | 4446                                   |

### UNIT SELECTION CHART

| Volts | Unit Model No. | Battery Type | Input Watts | *Watts to 87-1/2% of Rated Battery Voltage |        |        |        |
|-------|----------------|--------------|-------------|--|--------|--------|--------|
|       |                |              |             | 1-1/2 Hrs.                                 | 2 Hrs. | 3 Hrs. | 4 Hrs. |
| 6     | 2EC50          | Sealed       | 18          | 50   | 40     | 30     | 22     |
|       | 2EC100         | Lead-Calcium | 60          | 100  | 75     | 50     | 36     |
|       | 2EN25          | Sealed       | 40          | 25   | 20     | 13     | 9      |
|       | 2EN50          | NiCad        | 40          | 50   | 40     | 25     | 19     |
| 12    | 2E12C50        | Sealed       | 18          | 50   | 40     | 30     | 22     |
|       | 2E12C100       | Lead-Calcium | 60          | 100  | 75     | 50     | 36     |
|       | 2E12N50        | Sealed NiCad | 60          | 50   | 40     | 28     | 20     |

\*National Electrical Code Specification

### ORDERING FORMAT

|              |           |                    |               |                        |
|--------------|-----------|--------------------|---------------|------------------------|
| <b>2</b>     | <b>EC</b> | <b>100</b>         | <b>/H7551</b> | <b>-TD</b>             |
| No. of Heads | Series    | Capacity Indicator | Lamp Suffix   | Option<br>(Time Delay) |