



# SERIES PN, P12N

TYPE: \_\_\_\_\_  
 CATALOGUE #: \_\_\_\_\_  
 NOTES: \_\_\_\_\_



## Industrial/Commercial Unit Equipment— 6 or 12 Volt Maintenance-free Nickel-Calcium Battery



**Application** Appropriate unit for any installation, where the long life and maintenance-free features of the sealed nickel Cadmium battery are required.

### Features

- **HOUSING:** Heavy duty steel case with front access panel and mist white enamel finish.
- **MOUNTING:** Conduit knockouts and rear keyhole mounting slots are provided.
- **ELECTRONICS:**
  - Automatic, temperature compensated, pulse type charger
  - High capacity, automatic, dust tight instantaneous transfer relay
  - Low voltage disconnect prevents over discharge of battery. Automatic brown out protection is provided
  - Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
  - Fused output circuit.
  - Optional self-testing in accordance with NFPA 101, Life Safety Code. Unit tests itself every thirty days for one minute, thirty minutes on the sixth month and ninety minutes annually.
- **CONTROLS:**
  - Charge monitor LED indicates state of charge of the battery.
  - 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, 0,30/0.15A.

### Battery

6 or 12 volt, Long Life, maintenance-free sealed Nickel-Cadmium.

### Lamp Heads

PAR 36 size, high impact mar-resistant thermoplastic heads, furnished with high intensity incandescent lamps. Note: Tungsten halogen lamps optional. See lamp chart.

### Accessories

<b>(Order as separate item)</b>	<b>Model</b>
Mounting Platform .....	<b>MP-PQA</b>
Wire Guard.....	<b>WG2-L</b>
Wire Guard.....	<b>WG3-L</b>

Note: Certain option combinations may affect the listing. Please contact the factory for specifics.  
 WG2 (A cabinet)  
 WG3 (B cabinet)

### Options

<b>(Add Suffix to Model No.)</b>	<b>Suffix</b>
Improved Diagnostics .....	<b>-ID</b>
Improved Diagnostics (non-audible).....	<b>-IDNA</b>
PAR18 size heads .....	<b>-ELF2</b>
Black Housing and Heads.....	<b>-B</b>
Ammeter/Voltmeter.....	<b>-A* or -V*</b>
Lamp Disconnect Switch.....	<b>-DS</b>
Time Delay.....	<b>-TD**</b>
Chicago Approved.....	<b>-CH</b>
3-wire Cord & Plug.....	<b>-3CP</b>
3-wire Cord & Plug (277V).....	<b>-3CP-277</b>

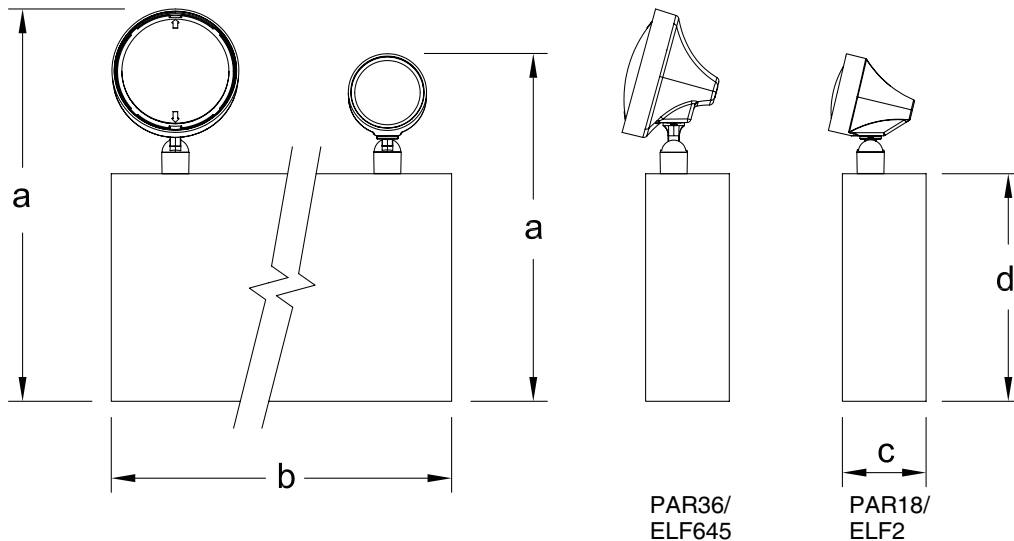
\* choose either Voltmeter or Ammeter  
 \*\* Not required with ID/IDNA option

### Unit Selection Chart:

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

Volts	Model No. (unit/Lamp Suffix)	Capacity in Watts to 87 1/2 % of Nominal Battery Voltage				Cabinet Size
		1 1/2 Hrs.	2 Hrs.	3 Hrs.	4 Hrs.	
6	2PN1/L9-M	25	20	14	10	A
12	2P12N1/L9-M	50	36	25	18	A
	2P12N2/L9-M	72	60	50	36	B

# Specifications For Series PN, P12N



Cabinet	Dimensions			
	a	b	c	d
A	14-5/8" // 13"	12-3/4"	3-1/8"	8-1/2"
B	16-3/8" // 14-3/4"	16-1/8"	5-7/16"	10-1/4"

**GENERAL:** The contractor shall furnish and install 6 or 12V emergency lighting units, as indicated on all plans. Input power shall be 120/277Vac, 60Hz. **Series P12N complies with requirements of Federal Specifications W-L-3050 Type 1, Class I, Style D.**

**HOUSING:** The battery and all components shall be housed in a compact 20 gauge steel case, with front access cover. Finish shall be mist white enamel.

**LAMP HEADS:** The unit shall be provided with one, two or three standard PAR36 size lamp assemblies constructed of high impact thermoplastic material, with access to lamp for replacement and finished in a color to match the unit. The heads shall be fully adjustable horizontally and vertically without tools. Optional lamp heads available.

**BATTERY:** Unit shall contain a 6 or 12 volt sealed, non-refillable, maintenance-free, Nickel-Cadmium battery. Capacity shall be as shown in Unit Selection Chart.

**Transfer:** The sealed dust-tight transfer relay shall automatically and instantaneously connect the DC lamp load to the battery upon failure of the normal AC supply, and shall disconnect the DC lamps when normal power is restored.

**CHARGER ASSEMBLY:** An automatic, temperature compensated, pulse type charger shall be provided. The charger shall be reverse polarity protected, short circuit proof and capable of recharging the battery in accordance with UL924.

**A low voltage disconnect** shall be provided to shut off the lamp load and circuitry when battery reaches 87<sup>1</sup>/<sub>2</sub>% discharge to protect battery from possible damage due to deep discharge. **Brownout circuit** shall be provided which activates emergency mode when AC power dips below 80-85% of nominal voltage. **AC line latch** circuit shall be provided which prevents battery discharge during installation to a non-energized circuit.

**CONTROLS:** **AC-ON LED** shall be provided to indicate the presence of AC power to the unit. **Charger monitor LED** shall be provided to indicate state of charge of the battery. Momentary test switch shall be provided to allow for periodic testing of the entire system.

**WARRANTY:** Entire unit (less lamps and fuses) shall carry a 3 year full warranty against defects in parts or workmanship under normal and proper use. The sealed Nickel-Cadmium battery shall carry a 5 year full, plus an additional 5 year pro-rata warranty.

**MANUFACTURER:**

Unit shall be Lightalarms Model \_\_\_\_\_

## Ordering Information

Example: 2P12N2/L9-M-V

Number of Heads	Series	Capacity Indicator	Lamp Option	Color	Options
2 = 2 heads	P12N = series	2 = capacity	/L9 = lamp option <small>*See lamp data sheet for other lamp wattages.</small>	-M= mist white finish	-V = voltmeter



**Thomas & Betts**