



# SERIES MG, MN

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



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



**Application** Compact housing design yet meets most requirements for moderate loads. Reliable, economic units for all public areas.

### 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 overdischarge of battery. Automatic brownout protection is provided.
  - Labor saving AC line latch prevents battery discharge during installation to a non-energized 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, 0,3/0.15A

### Lamp Heads

PAR 36 size, high impact resistant thermoplastic heads, furnished with high intensity incandescent lamps.

**Note:** Tungsten halogen lamps optional.

### Accessories

(Order as separate item)      **Model**  
 Wire Guard ..... **WG1-L**  
 Larger Unit Wire Guard ..... **WG2-L**

### Battery

6 or 12 volt, maintenance-free sealed Nickel-Cadmium or Lead Calcium.

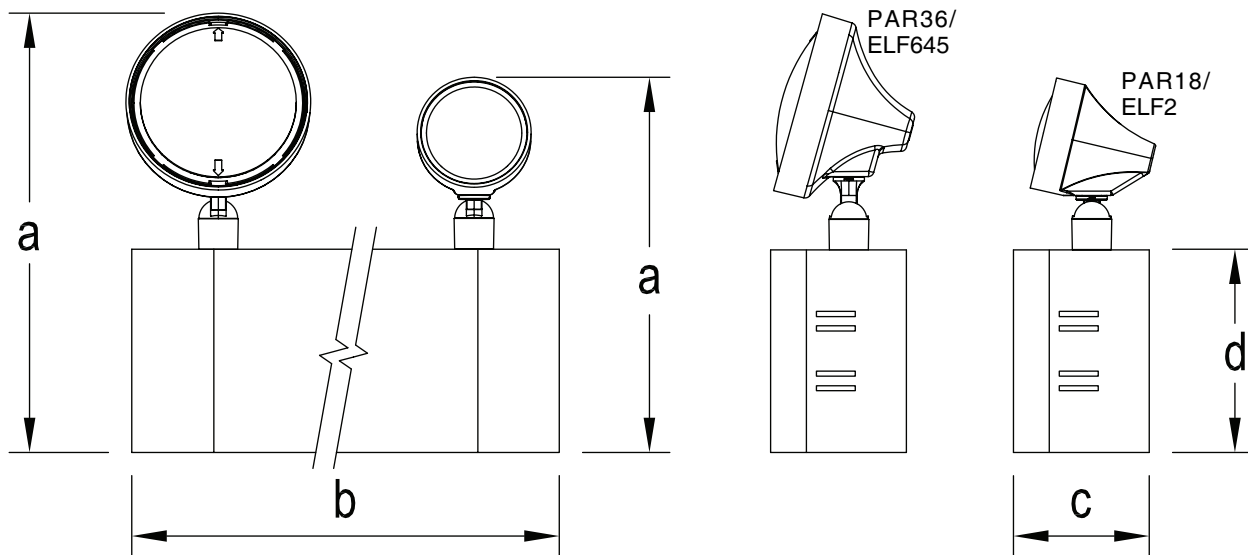
### Options

(Add Suffix to Model No.)      **Suffix**  
 Black Housing and Heads ..... **-B**  
 Ammeter/Voltmeter  
 (Not available with diagnostics) ..... **-A or V\*\***  
 Disconnect Switch ..... **-DS**  
 Improved Diagnostics ..... **-ID\***  
 Time Delay ..... **-TD\*\*\***  
 Ammeter ..... **-A\*\***  
 Improved Diagnostic Non-Audible ..... **-IDNA**  
 3-wire Cord & Plug ..... **-3CP**  
 3-wire Cord & Plug (277V) ..... **-3CP-277**  
 PAR18 size heads ..... **-ELF2**  
 \* Not available with Nickel-Cadmium battery  
 \*\* Choose only one; Voltmeter or Ammeter  
 \*\*\* Not required with ID/IDNA option

	Volts	Model No. (unit/Lamp Suffix)	Capacity in Watts to 87½ % of Nominal Battery Voltage				Cabinet Size
			1½ Hrs.	2 Hrs.	3 Hrs.	4 Hrs.	
Lead Calcium	6	2MG1/LH6-M	27	18	14	-	S
		2MG2/LH6-M*	54	37	28	21	L
	12	2M12G1/LH3-M	36	25	20	14	S
		2M12G2/LH3-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

\*Do not exceed unit rating in voltage or capacity. See lamp data sheet.

# Specifications For Series MG, MN



Cabinet	Dimensions			
	a	b	c	d
S	11-3/8" // 9-3/4"	11"	3-1/2"	5-1/4"
L	12-3/8" // 10-3/4"	12-1/2"	4"	6-1/4"

**GENERAL:** The contractor shall furnish and install 6 or 12V emergency lighting units, as indicated in the plans. Input power shall be 120/277Vac, 60 Hz.

**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 or two standard PAR36 size emergency heads 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 12V sealed, non-refillable maintenance-free Lead Calcium battery or Nickel-Cadmium. 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 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 87½% 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 three (3) year full warranty against defects in parts or workmanship under normal and proper use. The sealed lead calcium battery shall carry an additional three (3) years on a pro-rata warranty. 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: 2MG1/L9-M-ID*

Number of Heads	Series	Capacity Indicator	Lamp Option	Color	Options
2 = 2 heads	MG = series	1 = capacity	/L9 = lamp option <small>*See lamp data sheet for other lamp wattages.</small>	-M= mist white finish	-ID = improved diagnostics



**Thomas & Betts**