Type No. _____

Job Name _____

Catalog No. _____

LightGuard®

A DIVISION OF GTGELHTE THOMAS GROUP, LLC

N100G/N101G

Shown: N100G2H126B

Listed to 924

- **6 Volt**
- **54 and 110 Watts**
- **Pocket Plate, Re-fillable Nickel Cadmium Battery**

Housing

- 18 gauge steel enclosure and door with hammertone gray epoxy powder coat finish
- View-through window for electrolyte level verification
- Top door access for electrolyte maintenance
- Door panel includes a hinged access

Electronics

- 120/277 VAC dual voltage input capability
- Lightguard's high performance, temperature compensated, solid-state charger restores battery to full charge within UL 924 requirements
- Brownout protection activates lights when AC voltage drops 20% below nominal
- Labor saving AC lockout feature
- Low voltage disconnect prevents deep battery discharge
- Controls include integral Ready/Standby switch; "Press-to-Test" switch; Voltmeter; AC "On" and Fast Charge Rate indicator lights

Power Consumption

120 VAC - 0.37 amps, 45 watts

277 VAC - 0.17 amps, 45 watts

Warranty

Electronics: 3 years

Battery: 5 years full, 5 years pro-rata

Battery

- 6 volt, pocket plate, flooded type nickel cadmium battery with an expected life up to 20 years
- Model N100G battery has an 18 ampere hour (AH) capacity
- Model N101G battery has a 32 AH capacity
- Non-clogging plastic vent plugs allow servicing and prevents acid spray
- Optimum operating range for nickel cadmium batteries is 30°F (-1°C) to 95°F (35°C)*

* Increases or decreases in temperature will affect battery performance and/or capacity. Optimum battery performance realized at 77°F (25°C).

Self-Diagnostics (optional)

- OnmiTest Self-Diagnostics option includes automatic and manual tests to ensure unit is operating properly, and assists user in meeting code requirements.
- Verifies battery voltage and lamp continuity every 10 seconds.
- Illuminates lamps and discharges battery for 3 minutes every 30 days. A manual test is available from 1 to 90 minutes.

Application

- Industrial locations where extreme ambient temperatures [20°F (-7°C) < 130°F (54°C)] are present

Code Compliance

- UL 924 listed
- and NFPA 101
- NEC, BOCA and OSHA illumination standard

Operation

Model	Suggested Lamp Head	AC Input Voltage	AC Input Wattage+	DC Voltage	Watts to 87½% of Rated Voltage++			
					1½ hrs.	2 hrs.	4 hrs.	8 hrs.
N100G	H126B	120/277	45	6	54	40.5	26	9
N101G	H126B	120/277	45	6	110	82.5	53	19

\+ Based on high rate charge after power loss ++ Per NEC Specifications

Ordering Information

MODEL	# OF HEADS	LAMP HEAD TYPE	OPTIONS [1]
N100G = 6 Volt, 54 Watt Unit **N101G** = 6 Volt, 110 Watt Unit	**3** = Three **2** = Two **1** = One **blank** = No lamp heads	See lamp head selection chart below -- for additional heads,	**EX** = Special Input Transformer (Specify voltage & frequency) **LC** = Line Cord (6', 120 VAC field installed) **OT** = OmniTest Self-Diagnostics **OTAL** = OmniTest with Alarm **OTTD** = OmniTest with Time Delay [3] **TD1** = 120 VAC Time Delay [2, 3] **TD2** = 277 VAC Time Delay [2, 3]

ACCESSORIES (Ordered Separately)
MBBG = Mounting Bracket **URT612** = Universal Remote Test (URT) **WG** = Wire Guard

NOTES:

1) Some option combinations may impact UL listing. Consult factory for specifics.

2) Not available with OT, OTAL, or OTTD options.

3) 15 minute delay.

Ordering Example

N100G 2 H126B TD1

Model

# of Heads

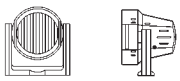
Lamp Head

Options

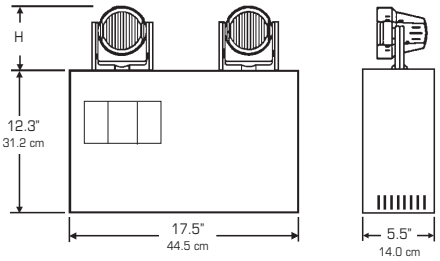
Lamp Head Selection

Lightguard's H-Head is the suggested head for Models N100G and N101G. The H-Head is constructed of high impact polycarbonate, and is offered in black to complement the N100G/N101G housing. The H-Head features dual-axis swivel mount and is available with 6 volt halogen lamps.

Lightguard offers other lamp heads that can be used with the N100G/N101G. For lamp head details, please refer to the Accessories section of the Lightguard specification binder.

HEAD TYPE	DC VOLTAGE	DC WATTAGE	ORDER CODE
H-Head, Thermoplastic 	6 VOLT HALOGEN	7 watt 12 watt	**H76B** **H126B**

Dimensions



Lamp Head	Height (H)
X	6.25" (15.9 cm)
PRL(H)	6.25" (15.9 cm)
H	3.5" (8.9 cm)
J	5.0" (12.7 cm)
D	6.0" (15.2 cm)

Model	Weight
N100G	37 lbs. (16.8 kg)
N101G	40 lbs. (18.1 kg)

Suggested Specification

Furnish and install Lightguard emergency lighting model _____. The unit shall be listed to Underwriters Laboratories, Inc. Standard #924 and shall meet the standards of the National Electrical Code (NEC).

INSTALLATION /OPERATION - Unit shall be easily field connected to a 120 or 277 volt, 60 hertz, unswitched power source. Installation must comply with the NEC Code as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes

CHARGER - The charger shall be solid-state, SCR controlled, full wave and current limited, and shall utilize a pulse current charge to extend battery life. It shall include temperature compensation for temperature variations from 77°F. Components shall operate at less than 50% of their rating to ensure reliability and long life. The charger shall maintain the battery at full capacity without the need for periodic exercising or equalizing. The following features shall be standard: Low Voltage Disconnect; Brownout Protection AC Lockout.

BATTERY - The batteries shall be 6 volt, pocket plate type nickel cadmium. Batteries shall feature non-clogging plastic vent plugs to allow servicing and to prevent acid spray.

HOUSING - The cabinet and door shall be constructed of 18 gauge steel with a hammertone gray epoxy powder coat finish.

CONTROLS - The unit shall include a "Press-to-Test" switch, AC "On" and Fast Charge Rate indicator lights.