

Type No. _____
 Job Name _____
 Catalog No. _____



A DIVISION OF GENIE THOMAS GROUP, LLC

B200G/B170G



Shown: B200G2H1212B



Listed to 924

Housing

- 18 gauge steel enclosure and door with hammertone gray epoxy powder coat finish

Electronics

- 120/277 VAC dual voltage input capability
- Lightguard's high performance, temperature compensated, solid-state charger restores battery to full charge within 12 hours
- 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 - 0.40 amps, 48 watts
 277 VAC - 0.17 amps, 48 watts

Code Compliance

- UL 924 listed
- NFPA 101
- NEC, BOCA and OSHA illumination standard
- B200G with (4) H1212B lamp heads meets NRC requirements for an eight-hour run time

Warranty

Electronics: 3 years
 LEC-361: 5 years full, 10 years pro-rata
 LC-310: 3 years full, 10 years pro-rata

- LEC-361 or LC-310 Powered Industrial Duty Emergency
- 12 Volt, 174 or 170 Watt Capacity
- Heavy Industrial, Sealed Lead Calcium Batteries by Lightguard

Batteries

LEC-361 (used with F100)

- Extra long-life, heavy industrial grade, sealed lead calcium battery
- 6 volt, 36 ampere hour (AH) minimum capacity
- Cell design protects against deep discharge and requires no addition of water
- Low specific gravity 1.25 (±.10) reduces corrosion rates and lowers electrode sulphation
- Expected life up to 20 years
- Optimum operating range of 65°F (19°C) to 90°F (32°C)**

LC-310 (used with F85)

- Extra long-life, industrial grade, sealed lead calcium battery
- 6 volt, 36 ampere hour (AH) minimum capacity
- Immobilized electrolyte design
- Operates at low internal pressure
- Low self-discharge rate
- Expected life up to 10 years
- Optimum operating range of 65°F (19°C) to 90°F (32°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

- Institutional and industrial locations with normal ambient temperatures where a high capacity emergency unit with capability of operating multiple remote fixtures is desired

Operation

Model	Suggested Lamp Head	AC Input		DC Voltage	Watts to 87% of Rated Voltage ⁺⁺			
		Voltage	Wattage ⁺		1 ½ hrs.	2 hrs.	4 hrs.	8 hrs.
B200G	H1212B	120/277	65	12	174	131	84	48
	B170G	H1212B	120/277	65	170	65	48	24

+ Based on high rate charge after power loss

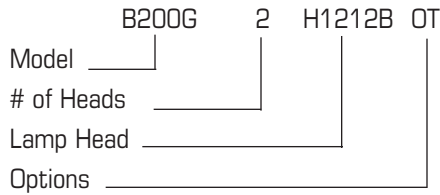
++ Per NEC Specifications

Ordering Information

MODEL	# OF HEADS	LAMP HEAD TYPE	OPTIONS ¹	ACCESSORIES (Ordered Separately)
B200G = 12 Volt, 174 Watt Unit B170G = 12 Volt, 170 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}	WG = Wire Guard MBB6 = Mounting Bracket URT612 = Universal Remote Test (URT) ²

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.

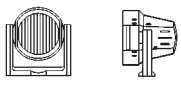
Ordering Example



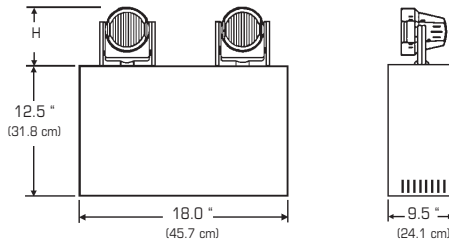
Lamp Head Selection

Lightguard's H-Head is the suggested head for the B200G and B170G. The H-Head is constructed of high impact polycarbonate, and is offered in black to complement the housing of the B200G and B170G. The H-Head features dual-axis swivel mount and is available with 12 volt halogen lamps. Four H1212B lamp heads mounted on the B200G meets NRC requirements for an eight-hour run time.

Lightguard offers other lamp heads that can be used with the B200G and B170G. 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 	12 VOLT HALOGEN	12 watt	H1212B

Dimensions



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

Model	Weight
B200G	73 lbs. (33.1 kg)
B170G	49 lbs. (22.2kg)

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 12 hours 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 (LVD); Brownout Protection; AC Lockout.

BATTERY (LEC-361) - The battery shall be Lightguard's LEC-361 (B200G model) battery, and shall be capable of a 32.4 watt discharge at 10 hours, with a minimum AH rating of 36 AH. The LEC-361 battery shall be a completely sealed, extra long-life, lead calcium type with plates constructed of calcium tin alloy lead grids. The LEC-361 battery shall never need addition of water or electrolyte, and shall operate completely unattended for up to 20 years. The battery shall consist of three cells for a total of six volts with a specific gravity of 1.25 (±.10) at 77°F at the eight-hour rate to a final voltage of 1.75 per cell. The battery casing shall be constructed of polycarbonate with a permanently sealed cover and self-sealing vents to permit the escape of undue pressure build-up. The plates shall be constructed of calcium tin alloy grids and separated by microporous rubber, which enables the electrolyte to circulate freely during charging and discharging. The battery shall be warranted for 15 years (5 full, 10 prorated) with a written, full disclosure warranty.

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

SELF-DIAGNOSTICS (optional) - The unit shall include OmniTest self-diagnostics. OmniTest shall conduct the following automatic tests: battery voltage and lamp continuity every 10 seconds, a 3 minute battery discharge and lamp illumination test every 30 days, and a 30 minute battery discharge and lamp illumination test every 6 months. OmniTest shall also conduct the following manual tests: three minute, 30 minute and 90 minute battery discharge and lamp illumination tests and optional audible alarm test.

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