

Type No. _____
 Job Name _____
 Catalog No. _____



Guard-Lite Series



Shown: GC50XBG2



- **6 Volt, 25 - 50 Watts**
- **12 Volt, 25 - 125 Watts**
- **Lead Calcium or Nickel Cadmium Batteries**
- **Class I, Div. 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H₂ & IIC; and Class II, Div. 2, Groups F & G Hazardous Location Units**

Housing

- Impact resistant, fiberglass reinforced polyester, gray enclosure is suitable for NEMA 3, 4x, and 12 areas
- Fully gasketed
- View through window enables easy monitoring of AC indicator and optional metering
- Lamp heads constructed of polycarbonate with optional shatter-resistant lamp head shields

Electronics

- 120/277 VAC dual voltage input capability
- LightGuard's high performance, temperature compensated charger restores battery to full charge within UL 924 requirements
- Nickel cadmium units utilize a constant current charger
- Brownout protection activates lights when AC voltage drops 20% below nominal
- Labor saving AC lockout feature
- Low voltage disconnect switch (LVD) prevents deep battery discharge

Code Compliance

- UL 924, 844, 1604 listed
- NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- UL listed for use in Class I, Div. 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H₂ & IIC; and Class II, Div. 2, Groups F & G
- Temperature performance rating - T3C
- Nickel Cadmium units are also listed for Class II, Div. 2, Groups F and G.

Warranty

Electronics: 3 years
 Battery: 5 years full, 5 years pro-rata (nickel cadmium)
 1 year full, 4 years pro-rata (lead calcium)

Batteries

- Maintenance free, sealed lead calcium battery has an expected service life of 5 years with an operating range of 65°F (19°C) to 85°F (30°C)**
- Maintenance free, sealed nickel cadmium battery has an expected service life of 10 years, operating range of 20°F (-7°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)

- OmniTest 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.

Electrical Specifications

120 VAC - 0.34 amps
 277 VAC - 0.15 amps

Application

- Hazardous locations that are subject to the presence of explosive material in the atmosphere

Operation

DC Voltage	Unit	Suggested Lamp Head	Watts to 87½ of Rated Voltage*			
			1½ hrs.	2 hrs.	4 hrs.	8 hrs.
6	GC25	XAG	25.0	19.0	12.0	—
	GC50	XBG	50.0	37.5	24.0	8.5
	GN25	XDG	25.0	19.0	12.0	—
	GN50	XDG	50.0	37.5	24.0	8.5
12	GTC25	XKG	25.0	19.0	12.0	—
	GTC50	XLG	50.0	37.5	24.0	8.5
	GTN25	XLG	25.0	19.0	12.0	—
	GTN50	XLG	50.0	37.5	24.0	8.5
	GTN75	XLG	75.0	56.5	28.5	15.0
	GTN100	XLG	100.0	75.0	48.0	17.0
	GTN125	XLG	125.0	94.0	60.0	21.5

* Per NEC Specifications

Guard-Lite Series

Ordering Information

MODEL		LAMP HEAD	# OF HEADS	OPTIONS ¹
6 Volt Sealed Lead Calcium Battery GC25 = 6 volt, 25 watt unit GC50 = 6 volt, 50 watt unit Sealed Nickel Cadmium Battery GN25 = 6 volt, 25 watt unit ³ GN50 = 6 volt, 50 watt unit ³	12 Volt Sealed Lead Calcium Battery GTC25 = 12 volt, 25 watt unit GTC50 = 12 volt, 50 watt unit Sealed Nickel Cadmium Battery GTN25 = 12 volt, 25 watt unit ³ GTN50 = 12 volt, 50 watt unit ³ GTN75 = 12 volt, 75 watt unit ³ GTN100 = 12 volt, 100 watt unit ³ GTN125 = 12 volt, 125 watt unit ³	See lamp head selection chart below. For additional heads, refer to the Accessories section of the LightGuard specification binder.	3 = Three 2 = Two 1 = One blank = No lamp heads	EX = Special Input Transformer (Specify voltage & frequency) OT = OmniTest Self-Diagnostics OTAL = OmniTest with Alarm OTTD = OmniTest w/Time Delay ⁴ TD1 = 120 VAC Time Delay ^{2, 4} TD2 = 277 VAC Time Delay ^{2, 4}

NOTES: 1) Some option combinations may impact UL listing.

Consult factory for specifics.

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

3) Additional listing for Class II, Division II groups F & G.

4) 15 minute delay.

Lamp Head Selection

LightGuard's industrial grade "X" head is the suggested lamp head for the Guard-Lite Series. The "X" head is a sealed beam PAR 36 lamp head constructed of gray polycarbonate. For additional lamp heads, please refer to the Accessories section of the LightGuard Specification Binder.

Type	Wattage				
	8	12	18	25	30
6 Volt					
Tungsten	XAG		XBG	XCG	XDG
Halogen	XIG	XJG			
12 Volt					
Tungsten		XEG	XFG	XGG	XHG
Halogen	XKG	XLG			

NOTE: Add "S" to end of lamp head code for shatter-resistant lamp head shields

ACCESSORIES (Ordered Separately)
WGS = Wire Guard (25 - 75w)
WG5 = Wire Guard (85 - 120w)

Ordering Example

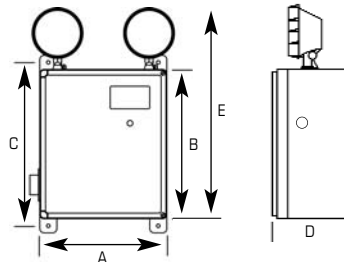
Model GC50 XBG 2 OT

Lamp Head _____

of Heads _____

Options _____

Dimensions



Dimensions are approximate and subject to change.

DIMENSIONS		
	25 W TO 75 W	80 W TO 125 W
A	11.2" (28.4 cm)	A 13.2" (33.5 cm)
B	13.2" (33.5 cm)	B 15.2" (38.6 cm)
C	14.4" (31.5 cm)	C 16.4" (36.6 cm)
D	6.6" (16.5 cm)	D 7.1" (17.8 cm)
E	19.4" (49.4 cm)	E 21.4" (54.4 cm)

Suggested Specification

Furnish and install LightGuard emergency lighting model _____. The unit shall be listed to Underwriters Laboratories, Inc. Standard 924, 844, 1604 and shall meet the standards of the National Electrical Code (NEC) Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H₂ & IIC.

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 on some units, the charger shall restore the battery to full charge within UL 924 standard following a rated discharge of not more than 90 minutes.

CHARGER - Battery chargers shall recharge to rated capacity in accordance with UL 924. Lead calcium units shall utilize a fully automatic, voltage regulated, current limited, solid-state charger. Nickel cadmium battery units shall utilize a constant current, solid-state charger. Select units shall utilize a temperature compensated charger to assure proper charging in variable ambient temperatures. The following features shall be standard: Low Voltage Disconnect (LVD), Brownout Protection; AC Lockout.

BATTERY - The unit shall incorporate the _____ (sealed lead calcium or sealed nickel cadmium) battery.

HOUSING - The cabinet shall be compression molded, fiberglass-reinforced, polyester chemically resistant to corrosive atmospheres. Unit shall incorporate internal mounting holes. In addition to external mounting feet, a formed-in-place non-removable gasket and non-removable hinged covers shall be included. Cabinet shall have a clear viewing port to allow unobstructed monitoring of voltmeter/ammeter and charge status LED. Enclosure shall meet the NEMA requirements for 3, 4x, and 12.

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.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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