



Type No. _____

Job Name _____

Catalog No. _____



Guard-Lite Series

- Class I, Division 2 Emergency Lighting Units
- 6 and 12 Volt, 25 to 150 Watts
- Lead Calcium and Nickel Cadmium
- Standard Self-Diagnostics Electronics*

Shown: GC50XA2SC

Housing

- Impact-resistant, fiberglass-reinforced polyester, gray enclosure with stainless steel hardware
- UL listed for Class I, Division 2, Groups A, B, C & D; Class I, Zone 2, Groups IIA, IIB (+ H₂) & IIC; and Class II, Division 2, Groups F & G
- View-through window allows easy monitoring of optional voltmeter and ammeter
- Available with Class I, Div. 2 rated polycarbonate sealed beam Par 36 tungsten or halogen lamp heads

Electrical Specifications

- 6 VDC 25 & 50 W Lead Calcium**
120 VAC, 60 Hz, 0.18 A; 277 VAC, 60 Hz, 0.08 A
- 12 VDC 25, 50, 100 & 125 W Lead Calcium**
120 VAC, 60 Hz, 0.40 A; 277 VAC, 60 Hz, 0.18 A
- 6 & 12 VDC 25 W NiCad**
120 VAC, 60 Hz, 0.088 A; 277 VAC, 60 Hz, 0.042 A
- 6 VDC 50 & 75 W NiCad, 12 VDC 50 W NiCad**
120 VAC, 60 Hz, 0.19 A; 277 VAC, 60 Hz, 0.084 A
- 12 VDC 75 & 100 W NiCad**
120 VAC, 60 Hz, 0.29 A; 277 VAC, 60 Hz, 0.14 A
- 12 VDC 125 & 150 W NiCad**
120 VAC, 60 Hz, 0.39 A; 277 VAC, 60 Hz, 0.18 A

Code Compliance

- UL 924 and 844 listed
- NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- Temperature Rating (T-Rating) 160° (T3C)
- Class I, Zone 2 T-Rating 200° (T3)

Warranty

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

Application

- Ideal for use in hazardous locations where explosive materials may be present
- The Guard-Lite Series meets the Buy American requirements

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 65°F (19°C) to 85°F (30°C)

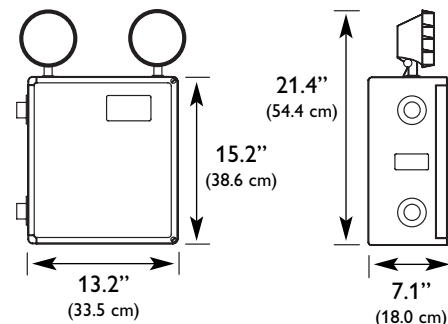
Smart Charger Diagnostic Electronics (standard)

- 120/277 VAC dual voltage input with surge protection is standard on all models
- Charging system is microprocessor driven with software embedded diagnostic routine and precision temperature compensation
- See specification sheet L2465 for technical specifications for the electronics
- Surge protection, brownout, AC lockout, and low voltage disconnect features are standard

Smart Charger Self-Test Diagnostics (optional)

- Standard self-diagnostic electronics perform automatic one minute test of emergency operation every 30 days and a similar 30 minute test every 180 days to verify fixture activation, battery capacity and lamp operation
- User may initiate a one minute or 90 minute test manually using the test switch or available infrared remote (accessory)

Dimensions



Dimensions are approximate and subject to change.

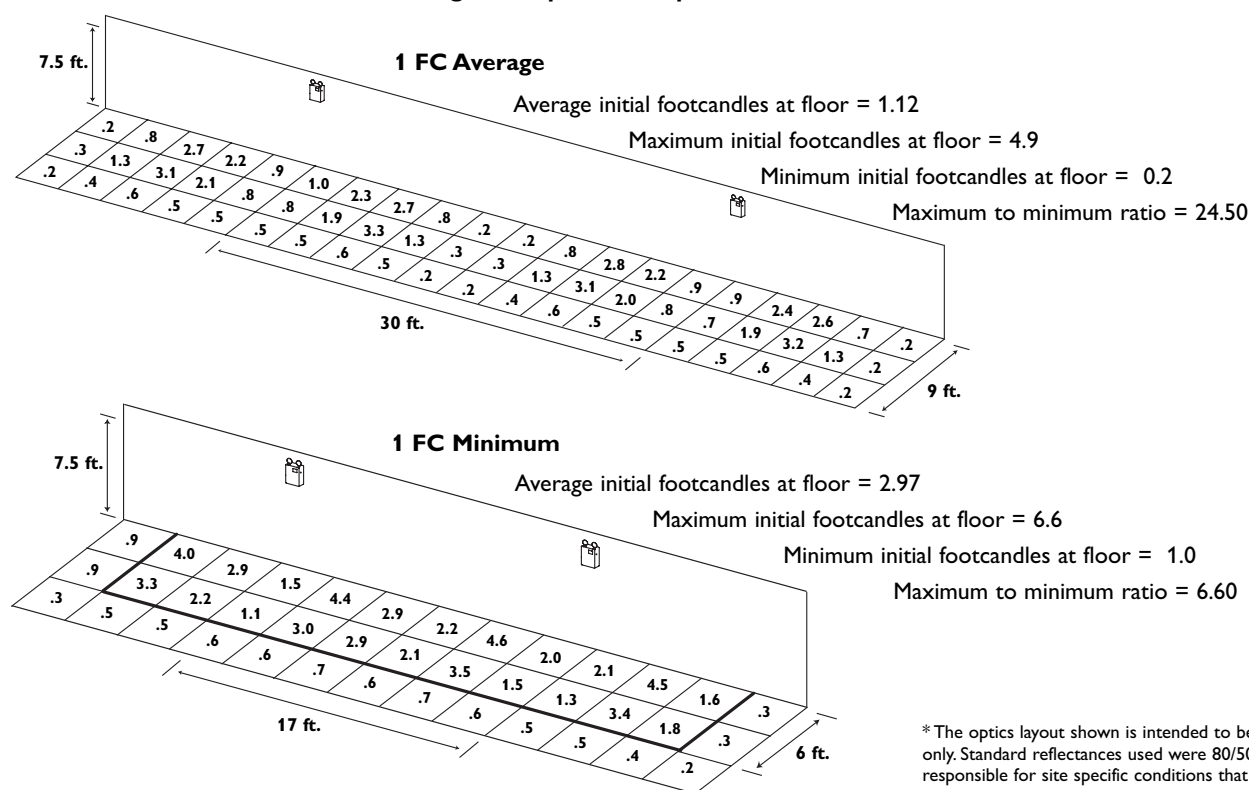
*Self-powered models incorporate the Smart Charger diagnostics electronics package. Self-testing is a factory installed option.

Ordering Information

SERIES/BATTERY		LAMP HEADS		# OF HEADS	SC	FACTORY INSTALLED OPTIONS¹
6 V, Lead Calcium GC25 = 25 W Unit GC50 = 50 W Unit 6 V, Nickel Cadmium GN25 = 25 W Unit GN50 = 50 W Unit GN75 = 75 W Unit	12 V, Lead Calcium GTC25 = 25 W Unit GTC50 = 50 W Unit GTC100 = 100 W Unit GTC125 = 125 W Unit 12 V, Nickel Cadmium GTN25 = 25 W Unit GTN50 = 50 W Unit GTN75 = 25 W Unit GTN100 = 100 W Unit GTN125 = 125 W Unit GTN150 = 150 W Unit	6 V, Tungsten XA = 8 W XB = 18 W XC = 25 W 6 V, Halogen XI = 8 W XJ = 12 W	12 V, Tungsten XE = 12 W XF = 18 W XG = 25 W 12 V, Halogen XK = 8 W XL = 12 W	Blank = No Lamp Heads 1 = One Lamp Head 2 = Two Lamp Heads 3 = Three Lamp Heads	SC = Smart Charger Diagnostics ACCESSORIES (Ordered Separately) SCIR = Smart Charger Infra-Red Remote WG = Wire Guard	A = Ammeter EX = Special Input Transformer (specify voltage & frequency) T = Self-Testing Diagnostics TA = Audible Self-Testing Diagnostics TD = Time Delay (15 minutes) V = Voltmeter NOTES: 1) Some option combinations may impact UL listing. Consult factory for specifics.

Optics* (IES formatted files are available on-line)

Wall Mounted 7.5' AFF, 12 V 12 W Halogen Lamp Heads Represented



*The optics layout shown is intended to be used as reference only. Standard reflectances used were 80/50/20. LightGuard is not responsible for site specific conditions that may alter the results.

Suggested Specification

Furnish and install LightGuard's emergency lighting unit model _____. The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC).

INSTALLATION AND OPERATION - Unit shall be easily field connected to a 120 or 277 VAC, 60 Hz, unswitched power source. Installation must comply with the NEC 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 level 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.

ELECTRONICS - All models shall be provided with LightGuard's Smart Charger self-diagnostics electronics platform. Smart Charger will detect and notify the installer regarding incorrect wiring of the transformer primary and restrict the damaging effects from affecting the printed circuit board. The Smart Charger electronics package shall provide continuous, real-time monitoring of all the critical equipment functions including, but not limited to: line voltage status and condition, charger fault, transfer fault, battery fault, and lamp load fault and notify personnel with a visual indicator sequence. Optional audible diagnostics shall be available from the factory. The optional self-testing software shall satisfy the periodic testing requirements in NFPA 101, Life Safety Code, as well as the International Building Code (IBC). The Smart Charger diagnostic/charging platform with self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. The Smart Charger circuit shall continuously sample ambient temperature conditions and adjust the charging regime to compensate for typical and dramatic ambient conditions equal to 3mv/°C compensation to maximize the life of the battery. An on-board IR receiver shall be standard and pre-programmed to operate from an optional IR user interface device (available as an accessory item).

BATTERY - The battery shall be either a maintenance-free, sealed nickel cadmium or lead calcium battery. The nickel cadmium battery shall utilize sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 85°F (30°C). The lead calcium battery shall provide trouble-free operation in temperatures up to 85°F (30°C). Nickel cadmium batteries shall be supplied with a five year full warranty and lead calcium batteries shall be supplied with a one year full warranty.

HOUSING - The unit housing shall be impact-resistant, fiberglass-reinforced polyester gray enclosure and is UL listed for Class I, Division 2, Groups A, B, C & D; Class I, Zone 2, Groups IIA, IIB (+ H₂) & IIC; and Class II, Division 2, Groups F & G hazardous location areas. A one-piece formed gasket shall be included to eliminate potential for seal failure.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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