



Type No. _____

Job Name _____

Catalog No. _____



Shown: 6V12WJ92SC



Shown: 6V12WD96W2SC

Vectra Series

6 and 12 Volt, 12 to 50 Watts

Lead Calcium or Nickel Cadmium Battery

Self-Diagnostics Electronics* or Non-Diagnostic Units

Housing

- Constructed of impact-resistant, UL 94 V-0, 5 VA thermoplastic
- Mounting is accomplished by means of the universal j-box mounting pattern or the keyhole knockouts provided on the rear of the housing
- The cover assembly closes and remains secure via a snap-fit design and offers tool-free access to the housing interior
- White or black housing and lamp head colors are available

Battery

- Maintenance free, sealed lead calcium battery has an expected service life of 5 years
- Maintenance free, sealed nickel cadmium battery has an expected service life of 10 years

Illumination

- Illumination is accomplished with up to three lamp heads mounted on the top of the unit
- Most often specified is LightGuard's J series rectangular lamp heads
- The J series lamp heads incorporate a high performance parabolic reflector with a wedge base tungsten lamp allowing maximum spacing between units along a path of egress
- A complete offering of Par 36 sealed beam tungsten, halogen or MR16 LED lamp heads are also available

Electrical Specifications

Non-Diagnostic Models (60 Hz)

- 6 V Lead Calcium: 0.115 A (120 VAC), 0.050 A (277 VAC)
- 6 V NiCad: 0.160 A (120 VAC), 0.071 A (277 VAC)
- 12 V Lead Calcium: 0.126 A (120 VAC), 0.055 A (277 VAC)
- 12 V NiCad: 0.116 A (120 VAC), 0.051 A (277 VAC)

Smart Charger Models (60 Hz)

- 6 V Lead Calcium: 0.113 A (120 VAC), 0.055 A (277 VAC)
- 6 V NiCad: 0.157 A (120 VAC), 0.065 A (277 VAC)
- 12 V Lead Calcium: 0.331 A (120 VAC), 0.146 A (277 VAC)
- 12 V NiCad: 0.200 A (120 VAC), 0.094 A (277 VAC)

Operating Temperature Range

- Standard Location: 65°F (19°C) to 85°F (30°C)
- Damp Location: 32°F (0°C) to 104°F (40°C)

Non-Diagnostic Electronics

- Standard electronics systems include a 120/277 VAC dual tap input transformer
- Standard electronic performance features include AC line latch, brownout detection, and low-voltage battery disconnect circuitry to maximize battery service life

Smart Charger Electronics

- Charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation
- See Smart Charger specification sheet L2368 for electronics details
- 120/277 VAC input, surge protection, brownout, AC lockout and low voltage disconnect features are standard

Smart Charger Self-Testing Diagnostics (Optional)

- The Smart Charger diagnostic/charging platform with optional self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. A one-minute or 90-minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the optional IR test device.

Code Compliance

- UL 924 listed
- NFPA 101, NEC, BOCA, OSHA and IBC illumination standards
- Optional damp location listing available (SC models only) 0°C to 40°C

Warranty

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

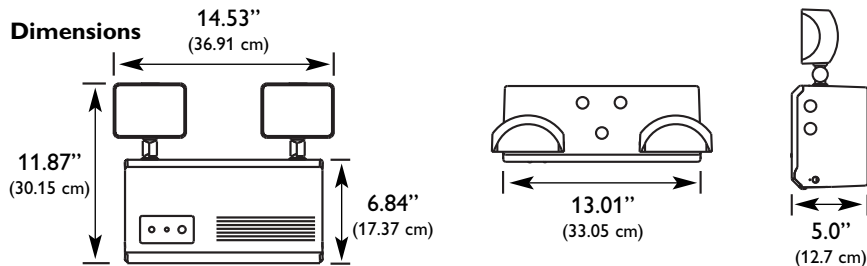
Application

- Commercial locations where a decorative, highly reliable source of egress lighting is desired
- The Vectra Series meets the Buy American requirements

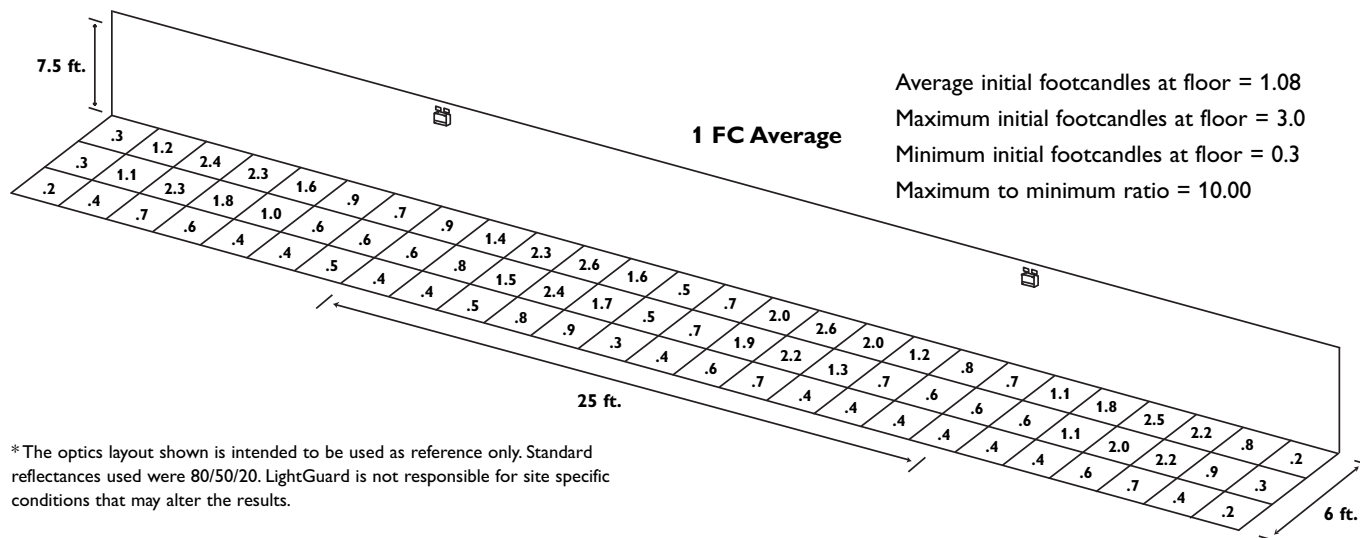
*Self-powered models incorporate the Smart Charger diagnostics electronics package. Self-testing is a factory installed option.

Ordering Information

SERIES/BATTERY	HOUSING COLOR	LAMP HEADS	# OF HEADS	MODEL DESIGNATOR	FACTORY INSTALLED OPTIONS ³
6 VDC, Lead Calcium 6V12 = 12 W ² 6V25 = 25 W 6V36 = 36 W ¹ 6V50 = 50 W 6 VDC, Nickel Cadmium 6VN25 = 25 W 6VN50 = 50 W	W = White B = Black	6 VDC Tungsten J6 = 5.4 W J7 = 7 W J9 = 9 W 12 VDC Tungsten J29 = 9 W J212 = 12 W J218 = 18 W 12 VDC LED M7F = 7 W, 35° *Optional lamp heads available.	Blank = No Lamp Heads 1 = One Lamp Head 2 = Two Lamp Heads 3 = Three Lamp Heads	Blank = Standard Non-Diagnostic Unit SC = Smart Charger Diagnostics	A = Ammeter ³ BD = Battery Disconnect Switch ³ DL = Lamp Location Listed ³ F1 = 120 VAC Input Fuse ³ F2 = 277 VAC Input Fuse ³ P1 = 120 VAC Power Switch ³ P2 = 277 VAC Power Switch ³ T = Self-Testing Diagnostics ³ TA = Audible Self-Testing Diagnostics ³ TD = Time Delay, 15 Minutes ³ V = Voltmeter ³
ACCESSORIES (order as a separate line item) SCIR = Smart Charger Infra-Red Remote PVS = Polycarbonate Vandal Shield WG5 = Wire Guard					
NOTES: 1) Not available with DL option. 2) Only available with non-diagnostic models. 3) Only available with Smart Charger models.					



Optics Wall mounted 7.5' AFF, 'J96' 6 V 9 W Tungsten Lamps 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, the National Electrical Code (NEC), NFPA 101, and the International Building Code.

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 Non-Diagnostic Models - LightGuard's standard electronics systems include a 120/277 VAC dual tap input transformer. Standard electronic performance features include AC line latch, brownout detection, and low-voltage battery disconnect circuitry to maximize battery service life.

Smart Charger Diagnostic Models - All models provided with LightGuard's Smart Charger self-diagnostics electronics platform 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 with an estimated service life of 7 to 10 years. The sealed, maintenance-free lead calcium battery shall provide trouble-free operation with an estimated service life of 4 to 6 years. Nickel cadmium batteries shall be supplied with a five year full warranty, and sealed lead calcium batteries shall be supplied with a one year full warranty.

HOUSING - The unit housing shall be constructed of impact-resistant, UL 94 V-0, 5 VA thermoplastic.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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