



Type No. \_\_\_\_\_

Job Name \_\_\_\_\_

Catalog No. \_\_\_\_\_



Shown: V12150M203SC



Shown: V12450PRL30122SC

# Vectra Series

**Commercial/Light Industrial**

**Emergency Lighting**

**12 Volt, 25-450 Watts**

**Standard Self-Diagnostics Electronics**

## Housing

- Enclosure is constructed of 20 gauge steel (25-50 W) or 18 gauge steel (75-450 W) with a 20 gauge cover and a white corrosion-resistant, epoxy powder coat finish
- Nine standard and custom colors available, consult factory
- Available with a wide range of fully adjustable lamp heads to meet your egress lighting needs
- Easily mounted with key hole slots or optional mounting plates
- 1/4" toggle bolts are recommended for installation
- All housings have six available 1/2" conduit knockouts
- The Vectra Series meets the Buy American requirements

## Battery

- Maintenance-free sealed lead calcium battery with 5-year life or maintenance-free sealed nickel cadmium with 10-year life

## Illumination

- Illumination is accomplished with two MR16 LED, MR16 halogen, or PAR 36 lamp heads mounted on the top or the side of the enclosure
- 75 W units and above can accommodate up to three lamp heads mounted directly to the top, side or bottom of the housing
- Accommodations for remote lamps are standard

## Electrical Specifications

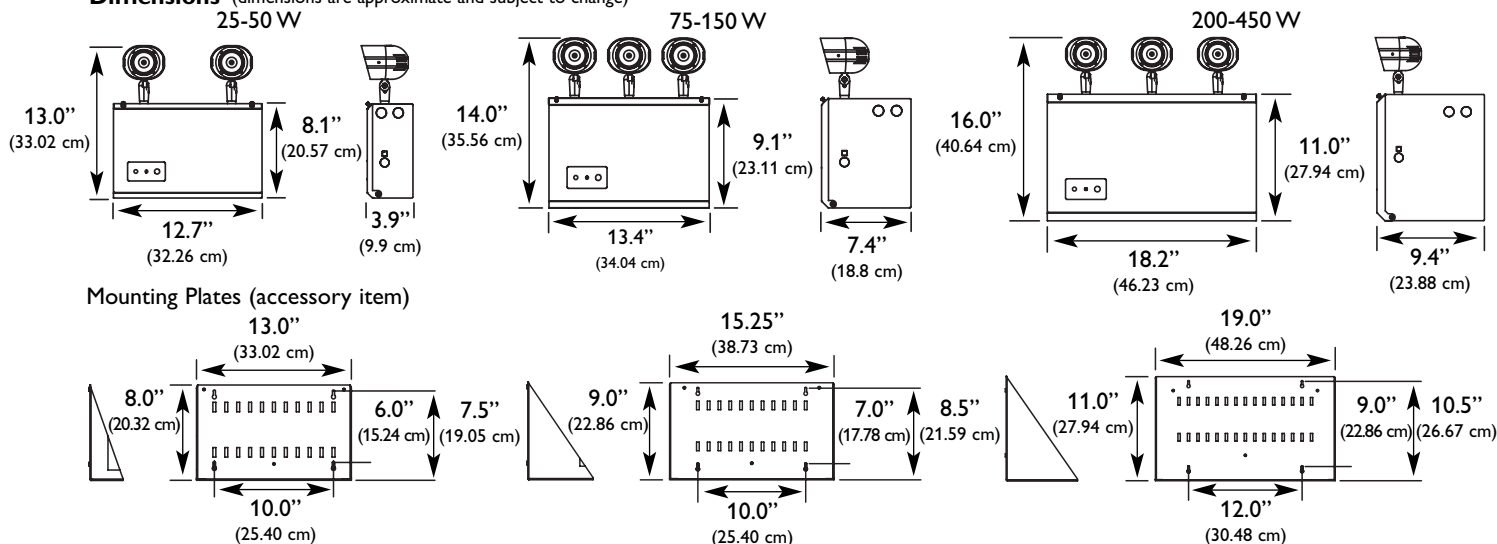
### 12V Lead Calcium

- 50-200 W units - 0.393 A (120), 0.173 A (277)
- 250-450 W units - 0.560 A (120), 0.236 A (277)

### 12V NiCad

- 25-50 W units - 0.200 A (120), 0.094 A (277)
- 75-150 W units - 0.433 A (120), 0.188 A (277)

## Dimensions (dimensions are approximate and subject to change)



## Operating Temperature Range

- Standard Location: 65°F (18°C) to 85°F (29°C)
- Damp Location: 32°F (0°C) to 104°F (40°C)

## Code Compliance

- UL 924 listed, UL damp location listing option 32°F (0°C) to 104°F (40°C)
- NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- City of Chicago Approved (all models), New York City Approved

## 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.

## Warranty

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

## Ordering Information

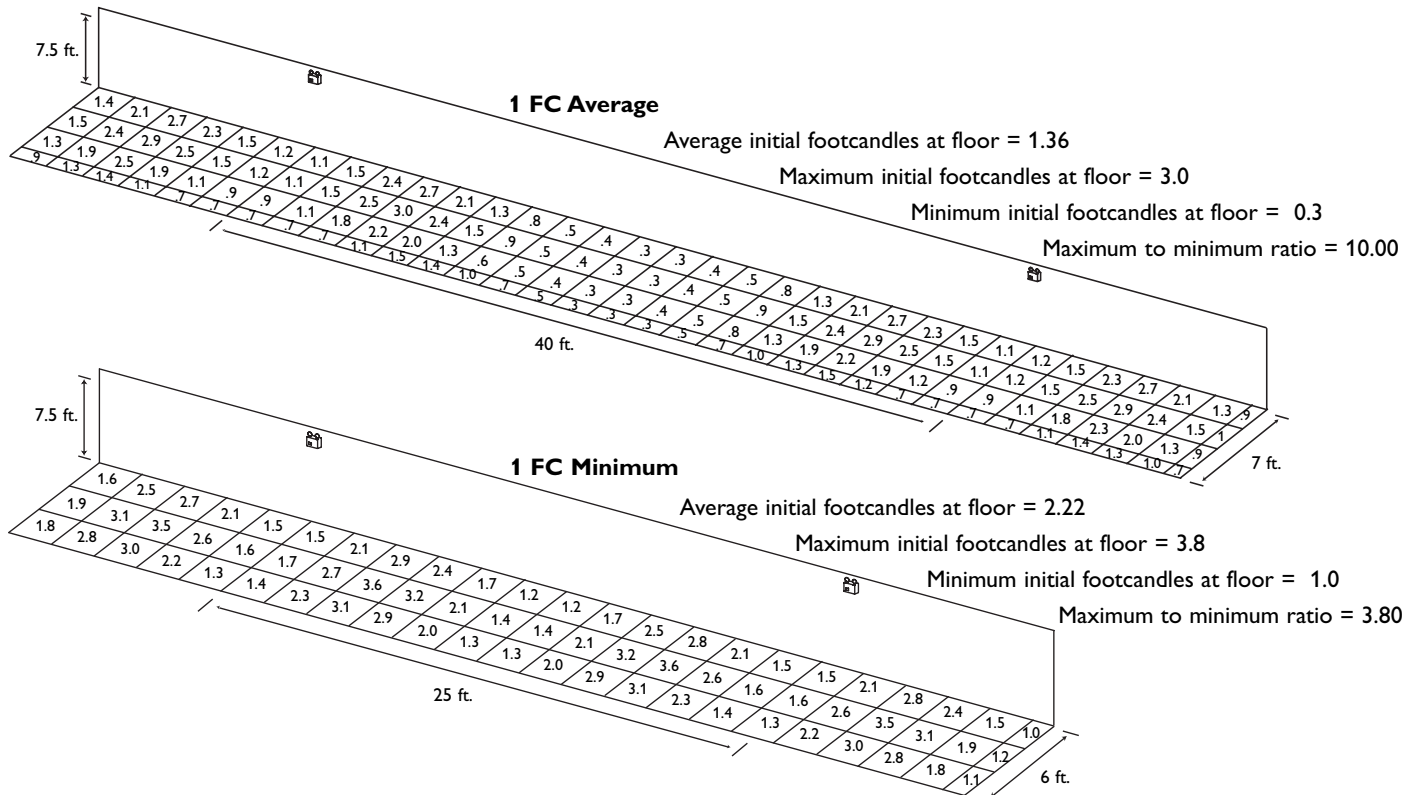
SERIES	LAMP TYPE*	# OF HEADS	SC	FACTORY INSTALLED OPTIONS
<b>12 V, Lead Calcium</b> <b>V1250</b> = 50 W <b>V1275</b> = 75 W <b>V12100</b> = 100 W <b>V12150</b> = 150 W <b>V12200</b> = 200 W <b>V12250</b> = 250 W <b>V12300</b> = 300 W <b>V12450</b> = 450 W  <b>12 V, Nickel Cadmium</b> <b>V12N25</b> = 25 W <b>V12N50</b> = 50 W <b>V12N75</b> = 75 W <b>V12N100</b> = 100 W <b>V12N125</b> = 125 W <b>V12N150</b> = 150 W	<b>(Metal Chrome PAR 36) (MR16 LED 12 VDC Tungsten Heads)</b> <b>PRL1212</b> = 12 W <b>PRL1812</b> = 18 W <b>PRL2512</b> = 25 W <b>PRL3012</b> = 30 W <b>12 VDC Halogen</b> <b>PRLH1212</b> = 12 W <b>PRLH3012</b> = 30 W <b>PRLH5012</b> = 50 W  <b>(MR16 Metal Heads)</b> <b>12 VDC Halogen</b> <b>M20</b> = 20 W, 40° <b>M35</b> = 35 W, 25° <b>M35F</b> = 35 W, 40° Flood <b>M50</b> = 50 W, 25° <b>M50F</b> = 50 W, 40° Flood	<b>Blank</b> = No Heads <b>1</b> = One <b>2</b> = Two <b>3</b> = Three <sup>4</sup>	<b>SC</b> = Smart Charger Diagnostics  <b>ACCESSORIES</b> <b>(ORDER AS A SEPARATE ITEM)</b> <b>SCIR</b> = Smart Charger Infra-Red Remote <b>SSMP</b> = Mounting Plate (25-50 W) <b>SMMP</b> = Mounting Plate (75-150 W) <b>SLMP</b> = Mounting Plate (200-450 W) <b>SKIT</b> = Strapping Kit For Use With Mounting Plates To Affix To Columns, Poles and I-beams <b>WG5</b> = Wire Guard (25-150 W) <b>WG</b> = Wire Guard (200-450 W)	<b>A</b> = Ammeter <b>BD</b> = Battery Disconnect Switch <b>BM</b> = Lamp Heads Installed on Bottom of Enclosure <sup>3</sup> <b>DL</b> = UL Damp Location Listed (0°C to 40°C) <b>EX</b> = Special Input Transformer (specify voltage & frequency) <sup>1</sup> <b>F1</b> = 120 VAC Input Fuse <b>F2</b> = 277 VAC Input Fuse <b>P1</b> = 120 VAC Power Switch <b>P2</b> = 277 VAC Power Switch <b>SM</b> = Lamp Heads Installed on Side of Enclosure <sup>2</sup> <b>SP</b> = Special Paint, Specify Color <b>T</b> = Self-Testing Diagnostics <b>TA</b> = Audible Self-Testing Diagnostics <b>TD</b> = Time Delay, 15 Minutes <b>V</b> = Voltmeter

NOTES: 1) Some option combinations may impact UL listing. Consult factory for specifics. 2) Side mounted lamp heads (SM) are not installed onto the enclosure at the factory. 3) Bottom mounted lamp heads (BM) available on 75 W models and above. 4) 75-450 W units only.

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

### Wall mounted 7.5' AFF, 12 V 20 W MR16 Lamps

\*\* 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 a maintenance free, sealed nickel cadmium or sealed lead calcium battery. The models selected with optional damp location listing shall provide trouble-free operation in temperatures up to 104°F (40°C).

**HOUSING** - The enclosure is constructed of 20 gauge steel (25-50 W) or 18 gauge steel (75-450 W) with a 20 gauge cover and a white corrosion-resistant, epoxy powder coat finish. A mounting plate may be used to facilitate wall mounting or used with an optional strapping kit to affix to columns, poles or I-beams.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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