



Shown: V24100M4502SC

Shown: V24450HP2SC

Housing

- Enclosure is constructed of 18 gauge steel with a 20 gauge cover with a white corrosion-resistant, epoxy powder coat finish
- · Nine standard and custom colors available, consult factory
- · Easily mounted with key hole slots or optional mounting plates
- Custom mounting plates are available to facilitate wall mount installations
- The use of the optional strapping kit allows the mounting plate to be fixed to columns, poles or I-beams
- 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

Illumination

- Illumination is accomplished with up to three MR16 or PAR 36 lamp heads mounted on the top of the enclosure
- · Lamps can also be mounted on the side or bottom
- · Accommodations for remote lamps are standard

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)

Electrical Specifications

24V Lead Calcium

• 25-100 W units - 0.741 A (120), 0.312 A (277)

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, 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

Vectra Series

Commercial/Light Industrial Emergency Lighting 24 Volt, 100-450 Watts

Standard Self-Diagnostics Electronics

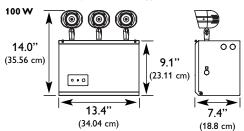
Smart Charger Self-Testing Diagnostics (Optional)

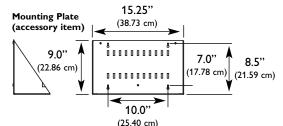
 The Smart Charger diagnostic/charging platform with optional self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. A one-minute or 90-minute test may be initiated via the push to test switch on the unit or by activating the appropriate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

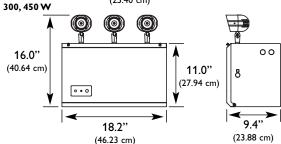
Warranty

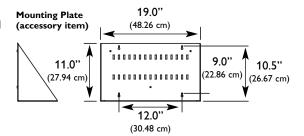
• Electronics: 3 years, Battery: 1 year full, 4 years pro-rata (lead calcium)

Dimensions (dimensions are approximate and subject to change)











Ordering Information

SERIES LAMP TYPE** # OF HEADS MODEL DESIGNATOR FACTORY INSTALLED OPTIONS A = Ammeter BD = Battery Disconnect Switch BM = Lamp Heads Installed on Bottom of Enclor DL = UL Damp Location Listed (0°C to 40°C) EX = Special Input Transformer (specify voltage frequency)¹ F1 = 120 VAC Input Fuse F2 = 277 VAC Input Fuse F1 = 120 VAC Power Switch P2 = 277 VAC Power Switch SCIR = Smart Charger Infra-Red Remote SMMP = Mounting Plate (100 W) SCIR = Smart Charger Infra-Red Remote SMMP = Mounting Plate (100 W) # OF HEADS MODEL DESIGNATOR FACTORY INSTALLED OPTIONS A = Ammeter BD = Battery Disconnect Switch BM = Lamp Heads Installed on Bottom of Enclor DL = UL Damp Location Listed (0°C to 40°C) EX = Special Input Transformer (specify voltage frequency)¹ F1 = 120 VAC Input Fuse F2 = 277 VAC Input Fuse F2 = 277 VAC Power Switch F2 = 277 VAC Power Switch F3 = Special Paint, Specify Color T = Self-Testing Diagnostics
24 V, Lead Calcium V24100 = 100 W V24300 = 300 W V24450 = 450 W W24450 = 450 W ACCESSORIES (ORDER AS A SEPARATE ITEM) ACCESSORIES SCIR = Smart Charger Infra-Red Remote SMMP = Mounting Plate (100 W) (MR16 Metal Lamp Heads) 24 VDC Halogen Heads 1 = One 2 = Two 3 = Three Blank = No Heads 1 = One 2 = Two 3 = Three Blank = No Heads 1 = One 2 = Two 3 = Three Blank = No Heads 1 = One 2 = Two 3 = Three B = Ammeter BD = Battery Disconnect Switch BM = Lamp Heads Installed on Bottom of Enclo DL = UL Damp Location Listed (0°C to 40°C) EX = Special Input Transformer (specify voltage frequency) F1 = 120 VAC Input Fuse F1 = 120 VAC Power Switch SM = Lamp Heads Installed on Side of Enclosur SP = Special Paint, Specify Color T = Self-Testing Diagnostics
V24100 = 100 W V24300 = 300 W V24450 = 450 W W24450 = 450 W WE ALTO PAR 36 HP = 50 W ACCESSORIES (ORDER AS A SEPARATE ITEM) SCIR = Smart Charger Infra-Red Remote SMMP = Mounting Plate (100 W) Diagnostics Diagnostics BD = Battery Disconnect Switch BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Side of Enclor BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Bottom of Enclor BM = Lamp Heads Installed on Bottom of Enclor
ACCESSORIES (ORDER AS A SEPARATE ITEM) SCIR = Smart Charger Infra-Red Remote SMMP = Mounting Plate (100 W) P1 = 120 VAC Power Switch P2 = 277 VAC Power Switch SM = Lamp Heads Installed on Side of Enclosur SP = Special Paint, Specify Color T = Self-Testing Diagnostics
SLMP = Mounting Plate (300 W & 450 W) SKIT = Strapping Kit For Use With Mounting Plates To Affix To Columns, Poles and I-beams WG5 = Wire Guard (100 W) TA = Audible Self-Testing Diagnostics TD = Time Delay, 15 Minutes V = Voltmeter

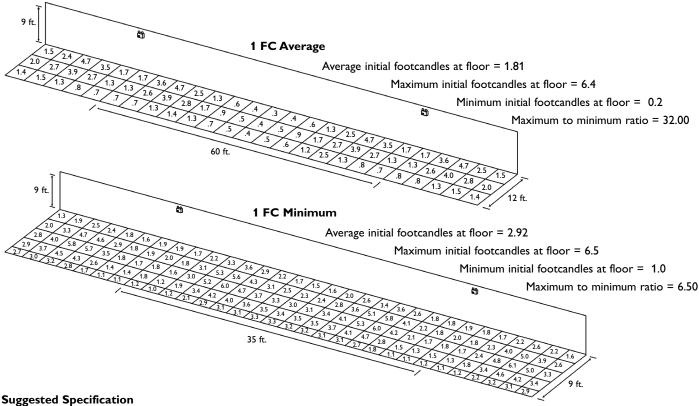
TES:

- Some option combinations impact UL listing. Consult ory for specifics.
- Side mounted lamp heads tion (SM) are not installed to the enclosure at the tory.
- Optional lamp heads available, sult factory or refer to lamp heads page.

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

Wall mounted 9' AFF, 24 V 50 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.



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

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 Chargér 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

BATTERY - The battery shall be a maintenance-free, sealed lead calcium battery. The models selected with optional damp location listing shall provide trouble-free operation in temperatures up to

HOUSING - The enclosure is constructed of 18 gauge steel with a 20 gauge cover with 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



