



SEVERE™ XVH, XVH12N & XVH12H COMBINATION SERIES

Class I Division 2, Groups A, B, C and D Hazardous Location Combination Unit

FEATURES

Construction

- Frame: fabricated of a Polyvinyl Chloride enclosure, fully gasketed around the lens and backplate to prevent water infiltration
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy-duty 1/8 inch thick aluminum
- Heads protected by shock-absorbent, clear polycarbonate covers
- Stainless steel tamper-proof screws
- Magnetically operated test switch
- 6 inch EXIT lettering legend, available in Red or Green

Mounting

- Surface Wall Mount ONLY
- Single face model includes (1) faceplate and (1) back-plate
- Backplate features universal knockouts for a standard 4 inch junction box, and four mounting eyelets used in wall mount applications
- Frame includes ½ inch conduit knock-out entry on top and sides.

Finishes

- Finished in industrial gray

Chevrons

- Faceplate includes two field-selectable, knock-out chevron indicators

Exit Legend LEDs

- Red or Green Long-Life Light Emitting Diodes (LED) illumination

Combination Units

- XVH Model, Nickel-Cadmium battery, 6V-20W total battery capacity
- XV12N Model, Nickel-Cadmium battery, 12V-24W total battery capacity
- XV12H Model, Nickel-Metal Hydride battery, 12V-40W total battery capacity

Lamp Head Source

- Choice of MR16, 6V 10W or 12V up to 20W
- Choice of MR16 LED, 6V or 12V-4W or 12V-5W each lamps
- Lamp heads are fully adjustable with no tools required.

Self-Diagnostics

- Combination Units standard with Improved Diagnostics
- NEXUS® Wired or Wireless system compatible

Special Wording Panels

- Available. Contact your sales representative with your design requirements

Approvals

- CSA US Listed for Hazardous Locations
- Evaluated to UL844 standard for Class I Division 2, Groups A, B, C and D
- Evaluated to UL924 and UL1598 standard
- Temperature Code: 6V-10W MR16 lamp, T3C (max 320°F, 160°C)
- Temperature Code: 12V-12W MR16 lamp, T3A (max 356°F, 180°C)
- Temperature Code: 12V-20W MR16 lamp, T2D (max 419°F, 215°C)
- Temperature Code: All LED lamps, T4A (max 248°F, 120°C)
- Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards

Warranty

- Five-Year full warranty (subject to proper installation and maintenance)

ACCESSORIES

(Order as a separate item)

Tamper-Proof Bit (extra)	690.0454-L
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SPECIFICATIONS

Supply and Install Lightalarms® Severe™ XVH, XVH12N, XVH12H Combination Series.

The combination model specified as single face shall be standard with (1) faceplate, and (1) backplate. Frame shall be fabricated of a Polyvinyl Chloride enclosure with full gasket around the lens and backplate. Faceplate lens shall be heavy-duty, vandal-resistant polycarbonate. Backplate shall be heavy duty 1/8 inch thick aluminum with 4 mounting eyelets. Lamp heads shall be protected by a clear polycarbonate lens. Model shall include stainless steel tamper-resistant screws, tamper-proof bit, magnetically operated test switch, and 6 inch EXIT lettering legend, available in Red or Green. Frame, and backplate shall be matching in color, industrial (G) Gray. Faceplate shall be industrial (G) gray with a (R) red or (G) green legend.

Stainless steel tamper-proof screws hold the faceplate(s) or backplate to the frame. The faceplate shall come standard with two field-selectable, removable knockout chevron indicators. The single face Combination unit shall be suitable for surface wall mount installations only.

The illumination source shall be Light Emitting Diodes (LED) in (R) red or (G) green color. The LEDs shall provide illumination in normal and emergency operation mode. The LEDs shall be mounted inside the Exit Sign housing. A color matching LED sensitive legend diffuser of (R) red or (G) green, shall be mounted in front of the LEDs to provide the 6" high by ¾" stroke EXIT letters with even illumination and no visible LEDs or hot spots.

When specified, the unit shall be equipped with two emergency heads protected by shock-absorbent, clear polycarbonate covers with tool-less adjustable swivels and MR16 halogen lamps as noted.

Combination Units shall be 120/277VAC, 50/60Hz, and supplied with a sealed maintenance-free battery, providing at least 90 minutes illumination upon AC failure.

XVH model shall be Nickel-Cadmium battery 6V-20W with power consumption of .15/.07A, less than 16W.

XVH12N model shall be a Nickel-Cadmium battery 12V-24W with power consumption of .30/.08A, less than 29W.

XVH12H model shall be a Nickel-Metal Hydride battery 12V-40W with power consumption of .30/.08A, less than 29W.

Combination Units standard with Improved Diagnostics shall include a self-test and choice of silent or audible diagnostic function, managed by a micro-controller; it shall execute automatic tests for one minute every 30 days, 30 minutes every 60 days and 90 minutes annually. A diagnostic circuit shall continuously monitor the performance of the battery, charger module, lamps and LED strip failure. When a fault is detected, the single service required indicator illuminates immediately. A detailed diagnostic display is located on the inside of the Combination Unit, out of sight from the general public. The detailed diagnostic display inside the unit will further indicate the nature of the fault.

The Combination Unit shall be tested by CSA US Listed for Hazardous Locations, evaluated to UL844 standard for Class I Division 2, Groups A, B, C and D, evaluated to UL924 and UL1598 standards, Temperature Code: 6V 10W MR16 lamp, T3C (max 320°F, 160°C); 12V 12W MR16 lamp, T3A (max 356°F, 180°C); 12V 20W MR16 lamp, T2D (max 419°F, 215°C). The Combination Unit shall meet NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards. Includes a five-year full warranty.

The Combination Unit shall be Lightalarms® Model _____.



TYPE _____

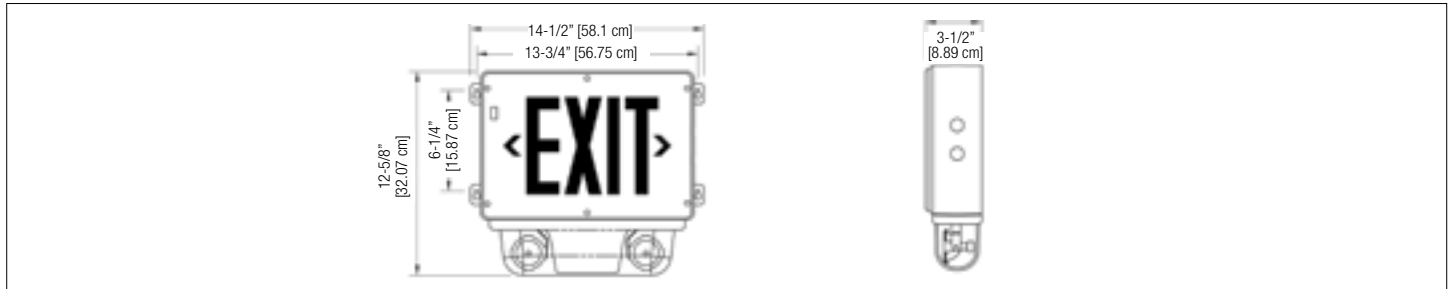
CATALOG # _____

NOTES _____

Designed for installations in Hazardous Locations with the risk of presence of flammable gases, vapors or explosive liquids

DIMENSIONS

Dimensions are approximate and subject to change.



TEMPERATURE CODES

LAMP RATING	TEMPERATURE CODE	MAX. TEMPERATURE	REPLACEMENT LAMP PART #
6V-10W	T3C	320°F (160°C)	580.0079
12V-12W	T3A	356°F (180°C)	580.0080
12V-20W	T2D	419°F (215°C)	580.0068
6V-4W LED	T4A	248°F (120°C)	580.0097
12V-4W LED	T4A	248°F (120°C)	580.0093
12V-5W LED	T4A	248°F (120°C)	580.0104

Note: Use qualified replacement lamps to avoid risk of over-heating

POWER CONSUMPTION/UNIT RATING CHART

SERIES	AC INPUT (VAC)	MAXIMUM		STAND-BY		WATTS TO 87.5% OF RATED BATTERY VOLTAGE*			
		Current (Amp)	Power (Watt)	Current (Amp)	Power (Watt)	1-1/2 hrs	2 hrs	3 hrs	4 hrs
XVH	120/277VAC, 50/60Hz	0.15 / 0.07	16	0.09 / 0.03	8	20	15	–	–
XVH12N	120/277VAC, 50/60Hz	0.30 / 0.08	29	0.13 / 0.05	10	24	18	12	–
XVH12H	120/277VAC, 50/60Hz	0.30 / 0.08	29	0.13 / 0.05	10	40	30	20	12

*National Electrical Code Specification

ORDERING FORMAT

HOUSING/FACE COLOR	SERIES	LEGEND COLOR	DIAGNOSTIC	NO. OF HEADS	LAMP TYPE ¹
GG= Gray/Gray	Nickel-Cadmium battery XVH= 6V-20W XVH12N= 12V-24W Nickel-Metal Hydride battery XVH12H= 12V-40W	R= Red G= Green	-D= Improved Diagnostic (included standard – non-audible) -DA= Improved Diagnostic (audible) -NEX= Nexus® Wired ¹ -NEXRF= Nexus® Wireless ¹ ¹ Consult your sales representative	/0= No head ¹ /2= 2 heads ¹ A remote load must be connected	M10 = 6V-10W MR16 M12 = 12V-12W MR16 MH20 = 12V-20W MR16, High output LD1 = 6V-4W MR16, LED LD7 = 12V-4W MR16, LED LD9 = 12V-5W MR16, LED ¹ No other lamp option available.

EXAMPLE: GGXVHRD/2M10

SEVERE™ CLASS 1, DIVISION 2 FAMILY

The Severe™ XVHZ & XVEHZ Exit Sign is part of the Severe™ family of Class I Division 2 rated emergency lighting products exit sign and remote are extremely resistant to water, strong impacts, vibrations and variations in temperature, this family of products is ideally suited for areas with the risk of the presence of flammable gases, or vapors or liquids able to create an explosive gas atmosphere.



Severe™ XVHZ & XVEHZ Exit Series

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Severe™ VH Battery Series

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Severe™ ELF 651 Remote Series

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