

FEATURES & SPECIFICATIONS

INTENDED USE — Provides a minimum of 90-minutes of illumination for the rated wattage upon the loss of AC power. Ideal for applications that require ensconced emergency lighting in wall or ceiling.

CONSTRUCTION — Trim and door panels finished in durable white textured powder coated paint. Can be wall papered or field painted.

Trim and panel doors lay flush with mounting surface. No exposed hardware.

Low profile recessed test switch and status indicator configuration minimizes exposed interfaces.

Rugged, 22 GA galvanized steel box with three 3/4" knock-outs.

Galvanized bar hangers span up to 30" on center.

Vertically adjustable bar hangers allows for flush mounting of trims to ceiling face, accommodates ceiling or walls up to 5/8" thick.

OPTICS — VEL: Two MR16 halogen 12W to 75W lamps.

VELS: Two MR11 25W lamps.

180° side-to-side. 90° down-and-out, relative to mounting height.

Lamps are ensconced until activated in the emergency mode.

Models with additional wattage capacity are provided with fused remote output leads.

ELECTRONICS — Dual-voltage input capability (120/277V).

Precision-controlled motor ensures reliable extraction and retraction of light sources.

Single, multi-chromatic LED indicator to display two-state charging, test activation and four-state diagnostic status.

Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection.

Self-diagnostics is provided as a standard feature. The diagnostic feature tests the unit once every 28 days by opening the doors for 1 second and then closing them, without turning the lamps on. Following this, a load test will be performed for 29 minutes checking for lamp, battery or transfer default. The charger function is monitored continuously.

Diagnostic evaluation of lamp, AC to DC transfer, charging and battery condition. Continuously monitors AC functionality.

IR receiver is provided as a standard feature. Requires the ELA RTVEL hand-held remote transmitter for remote testing (see accessories) for operation. Selectable 30-second or 90-minute manual testing.

Battery: VEL: Sealed, maintenance-free lead-calcium battery with capacity of 24W to 150W for a minimum of 90-minutes of emergency operation. Optional nickel-cadmium battery.

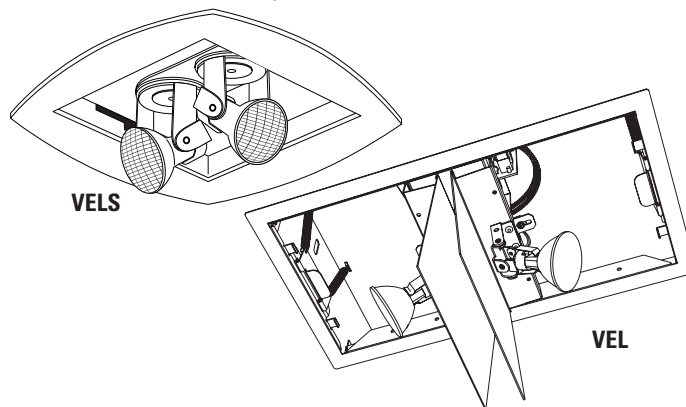
VELS: Sealed, maintenance-free lead-calcium battery with capacity of 50W for a minimum of 90-minutes of emergency operation. Optional nickel-cadmium battery.

Catalog Number	
Notes	Type

Concealed Emergency Lighting Unit

VEL-VELS

12-VOLT SELF-DIAGNOSTIC, SEALED LEAD-CALCIUM OR NI-CAD BATTERY



VEL: Extended runtimes available. (See chart on reverse side.)

Automatically recharges after a 90-minute discharge.

Low voltage disconnect prevents excessively deep discharge that can permanently damage the battery.

Voltage polarity protected connector for reverse polarity protection.

INSTALLATION — Wall or ceiling mount. Exposed or concealed suspension ceiling systems.

T-bar clips secure unit to grid in ceiling-mount applications.

VEL: Rough-in dimensions: 13-1/2" x 6-3/4". Allow 5-1/2" for door panel opening clearance.

VELS: Rough-in dimensions: 5-1/2" x 5-1/4". Allow 2" for door panel opening clearance.

LISTINGS — UL listed. Meets UL 924, NFPA 101, NFPA 70-NEC and OSHA illumination standards.

WARRANTY — Three-year warranty.

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: VEL1270 H3512

Family ¹	Lamp type ⁴	Options
<u>Single door</u> VELS1250 12V, 50W <u>Double door</u> VEL1224 12V, 24W VEL1240 12V, 40W VEL1270 12V, 70W² VEL12100 12V, 100W ³ VEL12150 12V, 150W ³	<u>Single door</u> H2512 25W/12V halogen MR11 ⁵ <u>Double door</u> H1212 12W/12V halogen MR16 H2012 20W/12V halogen MR16 H3512 35W/12V halogen MR16 H5012 50W/12V halogen MR16 H7512 75W/12V halogen MR16	N Maintenance-free ni-cad TD Time delay LRIS Less rough-in section ⁶

NOTES:

- For extended run-time information, see chart on reverse side.
- Not available with H1212 lamps.
- Not available with H1212 or H2012 lamps.
- Two lamps provided. Total lamp load cannot exceed the fixture capacity rating.
- Only available with VELs.
- VEL rough-in section ships standard with fixture unless LRIS suffix is specified. The rough-in section ships in a separate carton. Requires ELA VEL RIS accessory for installation.
- Minimum one per job required for remote testing.

Accessories

Order as separate items.

ELA RTVEL	Remote infra-red hand-held transmitter with selectable 30-second or 90-minute testing ⁷
ELA VEL RIS	VEL rough-in section (supplied standard with fixture unless LRIS suffix is specified) ships with mounting hardware only. Order ELA VEL RIS if needed for rough-in phase of construction
ELA VELS RIS	VELS rough-in section (supplied standard with fixture unless LRIS suffix is specified) ships with mounting hardware only. Order ELA VEL RIS if needed for rough-in phase of construction

VEL-VELS Concealed Emergency Lighting Unit, Velaré

SPECIFICATIONS

ELECTRICAL

Primary Circuit

Type	AC Input			Output Volts	Output Watts 1-1/2hr.
	Volts	Amps	Watts		
VEL1250	120	.10	30	12	50
	277	.10	30		
VEL1224	120	.20	30	12	24
	277	.20	30		
VEL1240	120	.20	30	12	40
	277	.20	30		
VEL1270	120	.20	30	12	70
	277	.20	30		
VEL12100	120	.20	30	12	100
	277	.20	30		
VEL12150	120	.20	30	12	150
	277	.20	30		

BATTERY

Sealed Lead-Calcium

Voltage	Shelf life ¹	Expected life ¹	Maintenance	Operating temperature
12	12 mos.	5-8 yrs.	none ²	60°-90°F (0°-37.8°C)

Nickel-Cadmium

Voltage	Shelf life ¹	Expected life ¹	Maintenance	Operating temperature
12	3 yrs.	10 yrs.	none ²	32-100°F (16-32°C)

NOTES:

- At 77°F (25°C).
- All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.

EXTENDED RUN- TIME CHART

Please use the chart below to determine which model number to use to achieve an extended run time of two, three, or four hours. Example: If you require a 4-hour run time, the lowest wattage unit available is the VEL1240 H1212. The units are not loaded to full capacity which in turn extends the run time.

Run-Time Needed	Lamp Wattage				
	(2) H1212 Lamps	(2) H2012 Lamps	(2) H3512 Lamps	(2) H5012 Lamps	(2) H7512 Lamps
1-1/2 Hrs.	VEL1224 H1212	VEL1240 H2012	VEL1270 H3512	VEL12100 H5012	VEL12150 H7512
2 Hrs.	VEL1224 H1212	VEL1240 H2012	VEL1270 H3512	VEL12150 H5012	
3 Hrs.	VEL1224 H1212	VEL1270 H2012	VEL12100 H3512		
4 Hrs.	VEL1240 H1212	VEL1270 H2012	VEL12150 H3512		

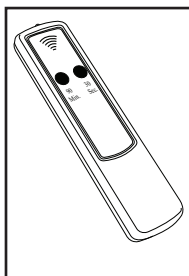
KEY FEATURES

Front Panel Diagnostic Display

- Hi Charge
- Float/Full Charge

Diagnostic Functions

- Battery Failure
- Lamp Failure
- Transfer Failure
- Charger Failure
- Door Failure
- Insufficient Charge
- In test



Remote transmitter hand-held accessory

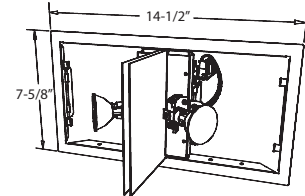
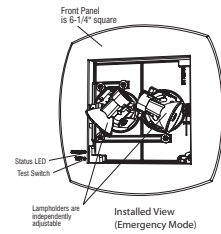
Self Diagnostics is standard

DIMENSIONS

Shipping Weight:

VELS1250 H2512 LRIS (12V, 50W) - 7.5 lbs.
ELA VELS RIS (rough-in) - 6.2 lbs.

VEL1224 H1212 LRIS (12V, 24W) - 12.5 lbs.
VEL1240 H2012 LRIS (12V, 40W) - 12.5 lbs.
VEL1270 H3512 LRIS (12V, 70W) - 15 lbs.
VEL12100 H5012 LRIS (12V, 100W) - 15 lbs.
VEL12150 H7512 LRIS (12V, 150W) - 15 lbs.
ELA VEL RIS (rough-in) - 11 lbs.



Mounted Dimensions (doors open)

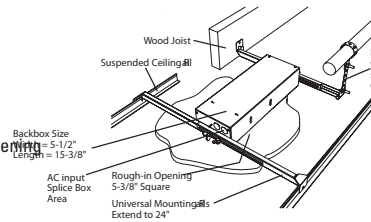
All dimensions are in inches (millimeters), unless otherwise specified.

VELS:

Rough-in opening:
5-1/2 (140) x 5-1/4 (133)

Overlap trim:
6-1/4 (159) x 6-1/4 (159)

Allow 2" for door panel opening clearance.

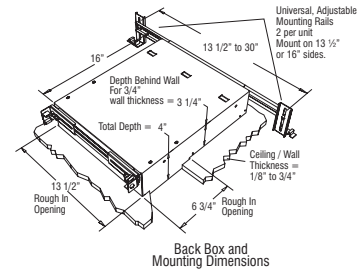


VEL:

Rough-in opening:
13-1/2 (341) x 6-3/4 (170)

Overlap trim:
14-1/2 (368) x 7-5/8 (193)

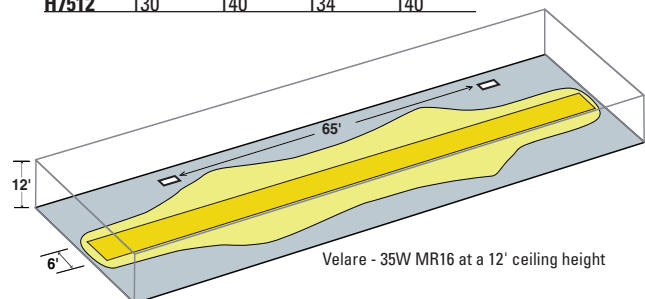
Allow 5-1/2" for door panel opening clearance.



PHOTOMETRICS

Recommended Center-to-Center Spacing

Lamp Type	Ceiling Height			
	10'	12'	16'	20'
H2512	80'	75'	N/A	N/A
H1212	17'	17'	16'	16'
H2012	36'	36'	34'	34'
H3512	65'	65'	58'	64'
H5012	70'	70'	70'	70'
H7512	130'	140'	134'	140'



Meets Life Safety Code standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes fixture is ceiling mounted in a 200'Wx200'L open area and reflectances of 80/50/20.

Note: All spacings are intended to be guidelines. Results will vary if application deviates from dimensions or assumptions stated above.



An AcuityBrands Company