



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

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

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



Shown: E1L0WSR



Shown: E1LH30WSR2

# E100 II Series

- Heavy Duty Steel Exit Signs
- LED Illumination
- Maintenance Free, Sealed Nickel Cadmium or Lead Calcium Battery

## Housing

- Ceiling, end and surface mounting
- Universal stencil with field-selectable chevrons
- Red or green lettering
- 20 gauge steel white or black enamel cabinet
- Special wording available on self-powered and combination versions
- New York City approved versions (consult factory)

## Battery

- Maintenance free, sealed nickel cadmium battery
- Maintenance free, sealed lead calcium battery is available on the combination emergency exit and has an expected service life of 5 years
- Nickel cadmium battery has an expected service life of 10 years and is recommended for use in high ambient temperature areas

## Application

- Ideal for industrial and commercial locations where a highly reliable exit sign is desired
- The E100 II Series meets the Buy American requirements

## Warranty

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

## Electronics

### AC Only

- 120/277 VAC dual voltage input
- LEDs are driven well below their current rating
- Nickel cadmium units utilize a solid state constant current charger

### Self-Powered and Combination Unit

- 120/277 VAC dual voltage input
- Includes brownout protection, AC lockout installation low voltage disconnect (LVD), and AC indicator lamp and test switch features
- Lead calcium units utilize a solid state, fully automatic voltage regulated current charger

## Electrical Specifications

### AC Only

- Red = 0.030 A (120 VAC), 0.013 A (277 VAC)
- Green = 0.035 A (120 VAC), 0.015 A (277 VAC)

### Self-Powered

- Red = 0.037 A (120 VAC), 0.016 A (277 VAC)
- Green = 0.037 A (120 VAC), 0.016 A (277 VAC)

### Combination Unit

- Red = 0.090 A (120 VAC), 0.039 A (277 VAC)
- Green = 0.090 A (120 VAC), 0.039 A (277 VAC)

## Code Compliance

- UL 924 listed
- NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards

## Self Diagnostics

- OmniTest Self-Diagnostics includes automatic and manual tests to ensure unit is operating properly, and assists user in meeting code requirements
- Verifies battery voltage and lamp continuity every 10 seconds
- Illuminates lamps and discharges battery for 3 minutes every 30 days. A manual test is available from 1 to 90 minutes.

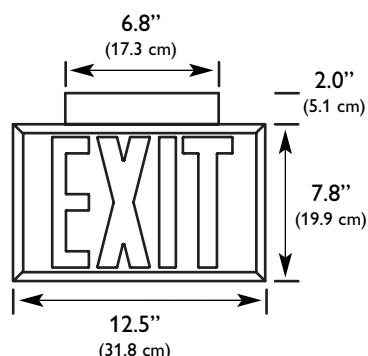
Note: Units specified with OmniTest Self-Diagnostics are limited to ceiling canopy mount only.

## Ordering Information

E1	L							
SERIES	LAMP	OPERATION	FRAME	# OF FACES	LETTER	# OF HEADS	MOUNTING	OPTIONS <sup>1</sup>
<b>E1</b>	<b>L = LED</b>	<b>Exit Sign</b> <b>120/277 VAC</b> <b>0 = AC Only</b> <b>3 = AC/Emergency, Nickel Cadmium</b>  <b>Combo Units</b> <b>120/277 VAC, Lead Calcium</b> <b>H12 = 12 W</b> <b>H30 = 30 W</b>	<b>B = Black</b> <b>W = White</b>  <b>ACCESSORIES</b> (Ordered Separately) <b>E1CKITW</b> = Mounting Canopy, White <b>E1PKITW</b> = Pendant Kit, White <b>E1DCK1</b> = DC Conversion Kit, 6VDC, 5.4 W <b>E1DCK2</b> = DC Conversion Kit, 12VDC, 5.5 W <b>WG4</b> = Wire Guard (exit wall mount) <b>T15TPTOOL</b> = Tamperproof Screwdriver	<b>S = Single</b> <b>D = Double</b>	<b>R = Red</b> <b>G = Green</b>	<b>Exit Sign</b> <b>N/A</b>  <b>Combo Units</b> <b>0 = None</b> <b>1 = One</b> <b>2 = Two</b>  <b>Note:</b> Standard lamp head is J66. Consult factory for alternate heads.	<b>C = Canopy</b> (standard with OmniTest version) <b>U = Universal</b> (includes canopy and extra stencil)  <b>Note:</b> 1) Some option combinations may impact UL listing. Consult factory for specifics. 2) Not available with OT option. 3) Requires T15TPTOOL. Ordered separately. 4) Must be ceiling canopy mounted.	<b>2CKT1</b> = 120 VAC Two Circuit <sup>2</sup> <b>2CKT2</b> = 277 VAC Two Circuit <sup>2</sup> <b>BF</b> = Buzzer/Flasher <sup>2</sup> (emergency operation only) <b>BZ</b> = Buzzer <sup>2</sup> (emergency operation only) <b>EX</b> = Special Input Transformer (specify voltage & frequency) <b>F</b> = 24 VDC Fire Alarm Interface <sup>2</sup> <b>FL</b> = Emergency Flasher <sup>2</sup> <b>OT</b> = OmniTest Self-Diagnostics <sup>4</sup> <b>SW</b> = Special Wording (consult factory) <b>TP</b> = Tamperproof <sup>3</sup>

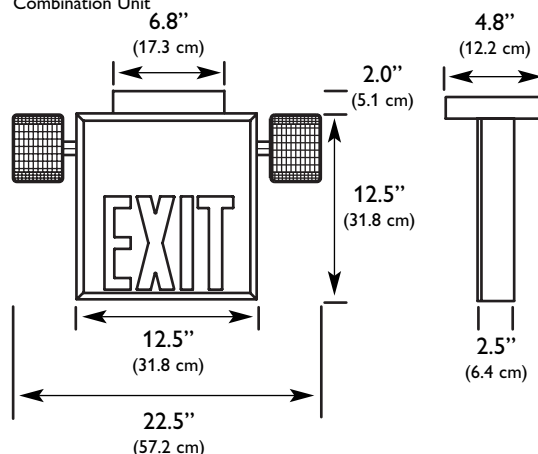
## Dimensions

AC Only and Self-Powered



Dimensions are approximate and subject to change.

Combination Unit



## Suggested Specification

Furnish and install LightGuard E100 Series II exit sign model \_\_\_\_\_. The exit shall be listed to Underwriter's Laboratories, Inc. Standard #924 and shall meet the standards of the National Electrical Code (NEC).

**INSTALLATION AND OPERATION** - Exit 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. (Self-Powered Only) - 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.

**CHARGER (Self-Powered Only)** - Product shall utilize a constant current charging system which will maintain the battery at full capacity without the need for periodic exercising or equalization. The following features shall be standard: low voltage disconnect (LVD), brownout protection and AC lockout.

**SELF-TESTING DIAGNOSTICS** - Unit shall contain a microprocessor controlled self test module that monitors battery voltage and charging current. If this module detects a fault, the user will be notified via a status indicator lamp. In addition, an automatic discharge test is performed for 3 minutes every 30 days in compliance with requirements set forth by NFPA101 Section 31-1.

**BATTERY (Self-Powered Only)** - The battery shall be either maintenance-free, sealed nickel cadmium (for exit only model) or maintenance-free, sealed lead calcium (for combination units).

**ILLUMINATION** - All versions shall utilize LEDs operating well below their rated current. AC only version shall consume no more than 0.030 A (red) or 0.035 A (green).

Self-powered version shall consume no more than 0.037 A (red) or 0.037 A (green). The combination version consumes no more than 0.090 A (red) or 0.090 A (green).

**HOUSING** - The exit sign housing shall be constructed of 20 gauge steel with white or black enamel coating.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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