



Type No. _____

Job Name _____

Catalog No. _____



E700 Series

- AC Only and Self-Powered
- Standard Self-Diagnostics Electronics
- LED Illumination
- Surface Mount, Single Face

Shown: E700WWR SCT

Housing

- Designed for direct, back-mount installations including low-level floor proximity applications
- Durable powder coated cast aluminum housing offers an extremely low profile finish when installed
- Fully compliant with ADA requirements
- 20 gauge steel back plate mounts directly to the wall via keyhole slots
- All electronics are contained within the housing eliminating the need to recess components into the wall
- Tamperproof hardware and bit are supplied standard

Electronics

AC Only

- 120/277 VAC dual voltage input with surge protection standard emergency operation
- Charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation
- See specification sheet L2465 for electronics details
- 120/277 VAC input, surge protection, brownout, AC lockout and low voltage disconnect are standard

Smart Charger Self-Testing Diagnostics (optional)

- 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. 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.

Battery

- Maintenance free, sealed nickel metal hydride battery has an expected life up to 10 years with an operating range of 65°F (18°C) to 85°F (29°C)
- Designed to exceed the minimum 90-minute run requirement

Electrical Specifications

AC Only

- Red = 0.035 A (120 VAC), 0.015 A (277 VAC), PF = 0.95
- Green = 0.034 A (120 VAC), 0.015 A (277 VAC), PF = 0.97

Self-Powered

- Red = 0.040 A (120 VAC), 0.018 A (277 VAC), PF = 0.90
- Green = 0.042 A (120 VAC), 0.018 A (277 VAC), PF = 0.90

Code Compliance

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

Application

- Ideal for high traffic, abusive areas such as schools, hospitals and public buildings
- Suitable for standard wall mount or floor proximity applications
- The E700 Series meets the Buy American requirements

Warranty

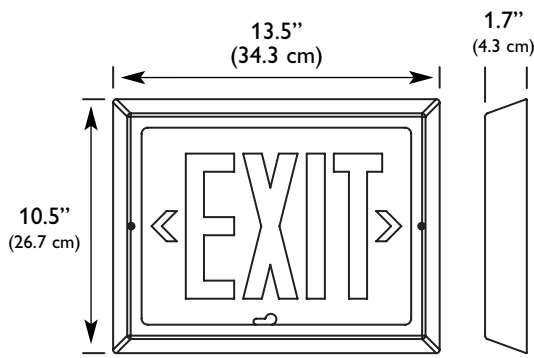
- Electronics: 5 years
- Battery: 5 years full, 5 years pro-rata

*Self-powered models incorporate the Smart Charger diagnostics electronics package. Self-testing is a factory installed option.

Ordering Information

		SC		
SERIES	FRAME COLOR	STENCIL/LETTER COLOR	MODEL DESIGNATOR	FACTORY INSTALLED OPTIONS ¹
E700 = AC Only EPN700 = NiMH Battery	W = White B = Black	R = Brushed Aluminum w/ Red Letters G = Brushed Aluminum w/ Green Letters WR = White w/ Red Letters WG = White w/ Green Letters BR = Black w/ Red Letters BG = Black w/ Green Letters	SC = Smart Charger Diagnostic Electronics	2CKT1 = 120 VAC Two Circuit (AC only) 2CKT2 = 277 VAC Two Circuit (AC only) BF = Buzzer/Flasher (self-powered only) BZ = Buzzer (self-powered only) DC = 12-48 VDC Input (AC only) EX = Special Input Transformer ¹ (specify voltage & frequency) FA = 24 VDC Fire Alarm Interface FL = Emergency Flasher (self-powered only) T = Self-Testing Diagnostics (non-audible) TA = Audible Self-Testing Diagnostics
ACCESSORIES (Ordered Separately) T15TPTOOL = Tamperproof Screwdriver SCIR = Smart Charger Infra-Red Remote		NOTE: 1) Some option combinations may impact UL listing. Consult factory for specifics.		

Dimensions (AC only and self-powered models)



Dimensions are approximate and subject to change.

Suggested Specification

Furnish and install LightGuard LED 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.

ELECTRONICS AC-Only Models - The exit sign shall be easily field connected to 120 or 277 VAC, 60 Hz un-switched power source. The exit sign equipped with red LED's shall consume 0.035 A with a power factor of 0.95 (120 VAC) and 0.015 A with a power factor of 0.95 (277 VAC). The exit sign equipped with green LED's shall consume 0.034 A with a power factor of 0.97 (120 VAC) and 0.015 A with a power factor of 0.97 (277 VAC). Available, factory-installed options shall include a two-circuit module to accommodate 120/120 or 277/277 VAC for use with a generator or central inverter system; a fire alarm activated flasher option to accommodate an input from a fire alarm panel and provide a flashing rate when the alarm system is activated.

Self-Powered Models - All self-powered models shall be provided with LightGuard's Smart Charger diagnostics electronics platform. The exit sign shall be easily field connected to 120 or 277 VAC, 60 Hz un-switched power source. 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 E700 Series exit sign equipped with red LED's shall consume 0.040 A with a power factor of 0.90 (120 VAC) and 0.018 A with a power factor of 0.90 (277 VAC). The E700 Series exit sign equipped with green LED's shall consume 0.042 A with a power factor of 0.90 (120 VAC) and 0.018 A with a power factor of 0.90 (277 VAC). 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 LED load fault and notify personnel with a visual indicator sequence. Optional audible diagnostics as well as self-testing diagnostics shall be available from the factory. The self-testing option shall satisfy the periodic testing requirements in NFPA 101, Life Safety Code as well as the International Building Code (IBC). The Smart Charger circuit shall continuously sample ambient temperature conditions and adjust the charging regime to compensate for typical and dramatic ambient conditions 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 (Self-Powered Only) - The battery shall be maintenance-free, sealed nickel metal hydride for trouble-free operation in ambient temperatures up to 85°F (29°C). Nickel metal hydride batteries shall be supplied with a five year warranty.

ILLUMINATION - Illumination of the stencil face is accomplished with long-lasting, high output LED's producing an average illumination level in excess of 25 ft (85.7 cd/m²) at the end of the 90-minute emergency run time.

HOUSING - The exit sign frame shall be constructed of a durable powder coated cast aluminum housing offers an extremely low profile finish when installed and is fully compliant to ADA requirements. The 20 gauge steel back plate mounts directly to the wall surface via keyhole slots.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



272 West Stag Park Service Road • Burgaw, NC 28425
(910) 259-1131 • FAX (800) 403-6927
www.lightguard.com

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