



ESL Series

6, 12 and 24V

10-year life expectancy, maintenance-free emergency lighting units.

The **ESL Series** battery units combine long life expectancy, high-performance design and a reasonable initial cost outlay. Ideally suited for a range of commercial applications, the long-life lead acid battery is specifically recommended for environments where the unit will be exposed to large variances in ambient temperature.

FEATURES

- Rugged steel cabinet with corrosion-resistant undercoating
- Removable front panel on cabinet provides easy access and allows the unit to be mounted at ceiling height
- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected.
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights
- Long-life, maintenance-free lead acid battery
- NEXUS® compatible (for more information on NEXUS®, please consult your sales representative)
- CSA C22.2 No. 141 certified
- Standard 120/347 VAC input with line cord kit
- Advanced diagnostics capabilities (specific load requirements)

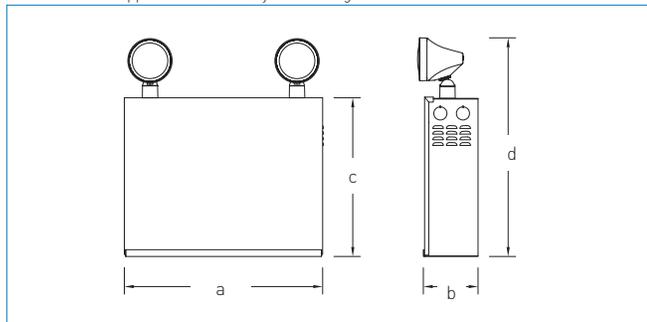
See warranty details at: www.tnb.ca/en/brands/emergi-lite



CABINET	DIMENSIONS			
	A	B	C	D
A	13 1/4" (33.7 cm)	3 5/8" (9.2 cm)	10 1/2" (26.7 cm)	14 1/4" (36.2 cm)
B	16 1/8" (40.9 cm)	5 1/2" (13.9 cm)	10 1/4" (26.0 cm)	13 7/8" (35.2 cm)
C	23 1/8" (58.7 cm)	5 1/2" (13.9 cm)	10 1/4" (26.0 cm)	13 7/8" (35.2 cm)

DIMENSIONS

Dimensions are approximate and subject to change.



TYPICAL SPECIFICATIONS

Supply and install a complete emergency lighting system as described herein and shown on the drawings.

The **Emergi-Lite® Smart Diagnostic** micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed. The unit shall have an output of: _____V and _____W.

The charger shall be fully computer tested and its charge voltage factory set to ± 1% tolerance. Chargers with field-adjusted potentiometers are not acceptable. A pulse-type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, and when the battery is at full capacity, the charger will shut off.

Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state or charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected.

The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes every 6 months and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with a sealed dust tight relay, a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate. The emergency lighting heads shall require no tools for orientation.

The unit shall be **Emergi-Lite®** model: _____.

WIRE GUARDS

460.0078-E	Wall Mount	"A" Cabinet
460.0081-E	Wall Mount	"B" Cabinet
460.0034-E	Wall Mount	"C" Cabinet

REPLACEMENT LAMPS

ORDERING CODE	LAMP TYPE	VOLTAGE/WATTAGE
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

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POWER CONSUMPTION AND UNIT RATING

MODEL	AC SPECS	WATTAGE CAPACITY					
		30 MIN	1H00	1H30	2H00	4H00	
06ESL36	120/347VAC	0.10/0.04 A	36	21	15	12	6
06ESL72		0.22/0.08 A	72	42	30	24	12
06ESL108		0.22/0.08 A	108	63	45	36	18
06ESL180		0.22/0.08 A	180	105	75	60	30
12ESL36		0.09/0.03 A	36	21	15	12	6
12ESL72		0.15/0.06 A	72	42	30	24	12
12ESL100		0.34/0.12 A	100	58	42	33	17
12ESL144		0.40/0.14 A	144	84	60	48	24
12ESL216		0.41/0.14 A	216	117	83	67	33
12ESL250		0.41/0.14 A	250	144	100	38	42
12ESL360		0.41/0.14 A	360	200	144	108	60
24ESL144		0.43/0.15 A	144	84	60	48	24
24ESL200		0.55 / 0.20 A	200	117	83	67	33
24ESL288		0.67 / 0.23 A	288	168	120	96	48
24ESL350		0.67 / 0.23 A	350	200	144	120	60
24ESL432		0.67 / 0.23 A	432	250	180	144	72
24ESL550		0.88 / 0.33 A	550	320	230	180	90
24ESL720		0.88 / 0.33 A	720	420	300	240	120

Note: Low wattage LED lamps provide extended time of emergency lighting without additional power.

ORDERING INFORMATION

SERIES	CAPACITY & CABINET SIZE ¹	COLOUR	VOLTAGE	OPTIONS	# OF HEADS	HEADS STYLE/WATTAGE
06ESL= 6V	36= 36W (A) 72= 72W (A) 108= 108W (A) 180= 180W (B)	Blank= factory white BK= black	Blank= 120/347VAC input -2= 277VAC input	U= auto-diagnostics ¹ UN= auto-diagnostics non-audible ¹ NEX= NEXUS [®] system interface ¹ NEXRF= wireless NEXUS [®] system interface ¹ A= ammeter V= voltmeter CPS3= constant power supply 3 Amps, 24V only ⁴ n CT= cab-tire D= time delay LW= twist-lock plug [120V] ² P= light activated test switch RF1= radio frequency interference filter, 120VAC n RF3= radio frequency interference filter, 347VAC n T= lamp disconnect TB= DC terminal block TBAC= AC terminal block TBACDC= AC/DC terminal block ZCB= zone control panel ³ n	/0= no heads /1= one head /2= two heads /3= three heads	LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W LL= MR16 LED, 24V-4W LM= MR16 LED, 24V-6W
12ESL= 12V	36= 36W (A) 72= 72W (A) 100= 100W (A) 144= 144W (A) 216= 216W (B) 250= 250W (B) 360= 360W (B)					
24ESL= 24V	144= 144W (A) 200= 200W (B) 288= 288W (B) 350= 350W (C) 432= 432W (C) 550= 550W (C) 720= 720W (C)					

¹ Cabinet size is not part of nomenclature

² 120V is standard

³ See zone control box in options section. B & C cabinet only.

⁴ "C" Cabinet only. 24V, 144W-720W.

EXAMPLE: 06ESL108U/2LL