

## ESL HP Series

High-performance commercial battery unit



### Features

**Standard life expectancy, maintenance-free emergency lighting units.**

The **ESL High Performance Series** battery units combine long life expectancy, high-performance design and a reasonable initial cost outlay. Ideally suited for a range of commercial applications that require high performance emergency lighting fixtures.

- 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.
- Die cast aluminum high efficiency heads
- Innovative head design featuring four LEDs and a dual driver that provide even illumination even in case of unexpected component failure
- Standard grey colour (black optional)
- May be wired from top or side only. Rear keyhole slots provided for installation (except for 24V model)
- Maintenance-free lead-acid battery
- Standard 120/347VAC input voltage
- Advanced diagnostics capabilities (specific load requirements)
- Meets exceeds CSA C22.2 No. 141-15
- **Warranty details at: [www.emergi-lite.ca](http://www.emergi-lite.ca)**

nexus®



### 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  $\pm 1\%$  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 of 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 and a test switch. When specified, units with self-test and auto-diagnostic feature shall be equipped with 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

Ordering code	Mounting	Cabinet
460.0078-E	Wall mount	"A" cabinet

Housing colour



Black



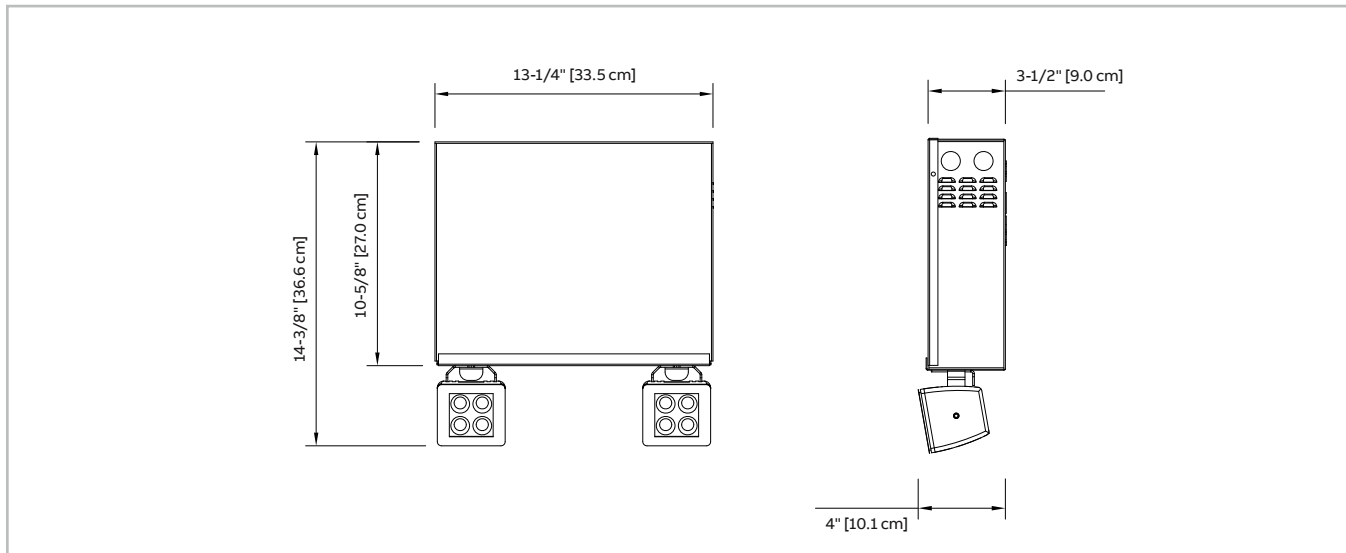
Grey (standard)

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### Dimensions

Dimensions are approximate and subject to change.



### Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
12ESL36	0.25/ 0.11A	36	21	15	12	6
12ESL72	0.25/ 0.11A	72	42	30	24	12
12ESL100	120/347VAC 0.25/ 0.11A	100	58	42	33	17
12ESL130	0.25/ 0.11A	130	75	54	43	22
24ESL144	0.55/ 0.17A	144	84	60	48	24

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

### Ordering information

Series/ voltage / capacity	Colour	Input voltage	Charger type
12ESL36= 36W (A)	BK= black <sup>1</sup>	-2= 120/277VAC input	Blank= standard
12ESL72= 72W (A)	GY= grey (standard)	Blank= 120/347VAC input	NEXRF= NEXUS® wireless
12ESL100= 100W (A)			U= auto-diagnostic
12ESL130= 130W (A)			UN= auto-diagnostic non-audible
24ESL144= 144W (A)			

<sup>1</sup>L15 head only

Options (can be combined)	# of heads	Head style / lamp wattage
D= time delay (15 min. default)	0= no heads	L6= 12-24V, 6W
RFI= 120VAC radio frequency interference filter	/2 = two heads	L10= 12-24V, 10W
RF3= 347VAC radio frequency interference filter		L15= 12-24V, 15W

Example: 24ESL144GYU2L15