

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ELSS Series

LIFE SAFETY SYSTEM

FEATURES

- Available with 50, 75 or 100W DC output
- Includes long-life lithium iron phosphate battery
- Spectron® Self-Test/Self-Diagnostics standard
- Microprocessor controlled charger
- Provides emergency lighting for the UL924 required minimum of 90 minutes, or longer based on load
- Electrical distribution for multiple LED remotes and normally-on exit signs
- Powers indoor, outdoor and industrial remotes
- 120/277VAC, 50/60Hz Input



RELATED PRODUCTS

- [ELIR Indoor LED Remote](#)
- [ELOR Outdoor LED Remote](#)
- [ELWR Industrial Remote](#)
- [EVEURW-DC ELSS Thermoplastic Exit Sign](#)
- [EVE4XURW-DC ELSS NEMA 4X Exit Sign](#)



SPECIFICATIONS

APPLICATION

- Designed for economical and efficient use of a single battery and maintenance point
- For use in new construction or retrofit
- Installation in commercial and architectural applications
- Powers units in indoor, outdoor and industrial settings
- Remotes can be located up to 150' from Central Battery
- For use with specifically designed LED remotes and Exit Signs

CONSTRUCTION

- Housing and front cover constructed of injection molded thermoplastic

INSTALLATION

- Universal mounting template molded in the back of housing aids in quick installation
- AC Input through surface conduit or wire entry from outlet box at rear of unit
- Unit mounts to all single gang and standard 3 1/2" and 4" square or octagonal electrical boxes
- Supplied with 8 conduit entry knock-outs
- Requires use of conduit for remote connections
- Pre-stripped AC input leads provided

ELECTRICAL

- 120 or 277VAC input, 50/60Hz
- Includes push-to-test, AC-on indicator with fault code display
- Supplied with a 12.8 VDC Lithium Iron Phosphate battery

COMPLIANCES

- Listed to UL924 Standard
- Designed to NFPA101, NFPA70 requirements
- Damp Location Listed
- CEC T20 Compliant
- FCC Certified

WARRANTY

- Full 5 year warranty
- See [HLI Standard Warranty](#) for additional information

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ORDERING GUIDE

Example: ELSS50

CATALOG #

ELSS						
Model	Capacity	Rating	Self-Diagnostics			
ELSS Central Battery System	50	50 Watts	Blank	Damp Location	Blank	Spectron Self-Test/Self-Diagnostics
	75	75 Watts				
	100	100 Watts				

Accessories (See spec sheets for associated remote offering and performance)

- ELIR Indoor LED Remote
- ELOR Outdoor LED Remote
- ELWR Industrial NEMA 4X/IP66 Remote
- EVEURW-DC ELSS Exit Sign
- EVEURW4X-DC ELSS DC NEMA 4X Exit Sign



ELIR Indoor Remote



ELOR Outdoor Remote



ELWR NEMA 4X Remote



EVE-DC ELSS Thermoplastic Exit Sign



EVE4X-DC ELSS NEMA 4X/IP66 Exit Sign

ELECTRONICS

The ELSS includes a distribution section on the main PCB which connects the normally-off remotes with up to 4 separate circuits. Also includes normally-On Exit connections for 5 individual connections.

Upon failure of normal utility power, a solid-state transfer switch automatically activates the remote lamp-heads. Upon resumption of normal utility power, the battery is disconnected from the load and recharged through a microprocessor controlled pulse charger. The battery is a maintenance-free Lithium Iron Phosphate(LiFePO4) type. The ELSS series accepts dual-voltage input of 120 or 277VAC at 50/ 60 Hz. A low voltage battery disconnect (LVD) feature protects the battery from severe damage during prolonged power failures. Manual testing is available at any time using the push-to-test button.

Spectron® Self-diagnostics monitors LED status, LED load transfer circuit, battery capacity and charger function and displays any fault detection by means of a flashing code

- Self-Test feature automatically runs a 1 minute test once a month and an alternating 30 or 90 minute test once every 6 months.

Multi-color LED indicator provides visible fault detection and charging status.

- User initiated 1 or 90-minute system test feature
- 15 minute retransfer delay
- Automatic unit transfer in brown-out conditions (below 80% of nominal AC input voltage)

OPERATING TEMPERATURE RANGE

Damp Listed: 50° to 104°F (10° to 40°C)

MAXIMUM POWER CONSUMPTION

	AC Voltage	Hz.	Amps.	Watts	Power Factor
ELSS50	120	60	0.17	19.5	.9
	277	60	0.09	20.2	.9
ELSS75	120	60	0.23	26.0	.9
	277	60	0.11	27.0	.9
ELSS100	120	60	0.31	36.0	.9
	277	60	0.14	36.0	.9

REMOTE LOAD GUIDE



ELIR Indoor Remote

Part Number	Required Watts	Spacing (7.5MH)
ELIR2	3W	30'
ELIR2HP	6W	60'
ELIR3	9W	90'



ELOR Outdoor Remote

Part Number	Required Watts	Spacing (7.5MH)
ELOR	8W	62' Fwd x 31' Side



ELWR NEMA 4X Remote

Part Number	Required Watts	Spacing (7.5MH)
ELWRD	10W	94'
ELWRDHP	16W	110'

UNIT CAPACITY SELECTOR

Std. Models	Total Watts For:			
	90 Minutes	2 Hours	3 Hours	4 Hours
ELSS50	50	40	25	20
ELSS75	75	60	36	30
ELSS100	100	90	50	40

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DIMENSIONS

