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nexus



# 24 LS & 24 LC Series

## 24 Volt Steel Enclosure



SPEC GRADE

COMMERCIAL

### Features

- Each unit comes with two (2) EF-18 heads with 9 watt high intensity incandescent lamps (standard)
- All-steel construction with an off-white baked enamel finish
- Available with sealed, maintenance-free Nickel-Cadmium, Long Life Lead, Lead-Calcium (Immobilized Electrolyte), or Lead-Calcium batteries
- PulsePlus Charger circuitry offers 120/277VAC, input 60 Hz., 0.3/0.15A (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lock out (automatic battery connect)
- Removable front panel
- UL Listed. Complies with NEC, Life Safety Code and OSHA. Approved for use in the Commonwealth of Pennsylvania
- 3-year full warranty, excluding lamps and fuses

### Accessories (order as a separate item)

DESCRIPTION	SUFFIX
Mounting bracket (cabinet B)	B2
Mounting shelves (cabinet B)	MP3-EG
Mounting shelves (cabinet C)	MP6-EG
Mounting shelves (cabinet D)	MP12
Wire Guard (cabinet A)	WG2-E
Wire Guard (cabinet B & C)	WG3-E
Wire Guard (cabinet D)	WG4-E

### Unit Data

**Housing:** Heavy duty code gauge steel construction, off-white baked enamel cabinet with a removable front panel for ease of installation and servicing.

B cabinet has a universal mounting cluster. All cabinets are furnished with 7/8" conduit knockouts, rear keyhole mounting slots, and provisions for mounting up to 3 heads on cabinet. Light Source: two EF18 heads furnished standard with 9 watt lamps Self-testing in accordance with NFPA 101, Life Safety Code. Unit tests itself every thirty days for one minute, thirty minutes on the sixth month and ninety minutes annually.

### Electrical

**Power Requirements:** 120/277VAC, 60 Hz., 0.3/0.15 Amp (other inputs available). Output: 24 Vdc, 2 fused output circuits. **Transfer:** dust-tight sealed relay automatically and instantly energizes lamp load upon failure of A.C. supply. **LVD:** low voltage battery disconnect circuit automatically shuts down lamp load and circuitry when battery reaches 87-1/2% of its nominal voltage, preventing deep discharge and permanent damage to the battery. **Lockout:** labor saving electronic circuit automatically connects battery when A.C. circuit is activated. **Brownout:** close tolerance electronic circuit activates emergency unit when utility power dips below 80-85% of nominal voltage. **Charger:** The Pulse-Plus charging circuit utilizes a microprocessor which samples the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger is current limited, temperature compensated, short-circuit protected and reverse polarity protected. The equipment is capable of full recharge in compliance with UL 924 specifications. **Transformer:** 120/277VAC. **Controls:** test switch, dual diagnostic LED indicator lights (hi-charging, AC pilot).

### Suggested Specification

Supply and install **Emergi-Lite®** Series 24 LSC \_\_\_\_\_ 24 LSE \_\_\_\_\_, 24 LC \_\_\_\_\_ or 24 LSM \_\_\_\_\_ in 24-volt, double heads, with electrically compatible remote. exit signs as indicated on the plans. The emergency lighting unit shall be an architecturally designed, self-contained fixture including sealed, maintenance-free battery.

**TYPE 24LSC** to be supplied with long life Nickel-Cadmium battery.

**TYPE 24LSE** to be supplied with long life pure lead battery.

**TYPE 24LSM** to be supplied with Lead-Calcium battery.

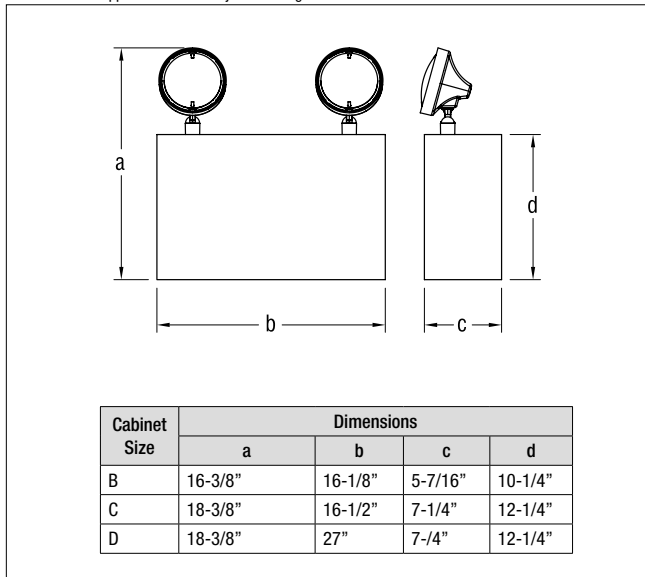
**TYPE 24LC** to be supplied with Lead-Calcium (free electrolyte) battery.

The unit shall supply the rated load for a minimum of 1-1/2 hours or to 87-1/2% of rated battery voltage. The unit shall be rated 120/277VAC, 60 Hz and be UL924 listed. The unit charger shall utilize a solid-state circuit which samples the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit protected 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 unit when utility power dips below 80-85% of nominal voltage. A low voltage battery disconnect circuit shall be provided and will disconnect the load and circuitry from the battery when it reaches 87-1/2% of its nominal voltage. The unit shall be capable of full recharge in compliance with UL924 specifications. The unit shall be furnished with a sealed dust-tight relay, a test switch and dual diagnostic LED indicator lights (hi-charge and AC pilot). The cabinet shall be constructed of \_\_\_\_\_ gauge steel in off-white enamel color. A removable front panel shall be furnished to provide full access for ease of installation and servicing. B cabinet units shall have a universal mounting cluster. All cabinets shall be furnished with 7/8" conduit knockouts, rear keyhole mounting slots (bracket or shelf available as an option) and provisions for mounting up to 3 heads on cabinet. Unit will be furnished with two EF18 lighting heads constructed of impact resistant, flame retardant thermoplastic material complete with 9 watt lamps. Fused output terminals shall be provided for ease of remote lamp connections. Every 24 LS & 24 LC Series unit shall complete three full cycles of discharge and recharge before shipment and will be certified that this testing has been done. Every 24 LS & 24 LC Series unit shall be fully warranted for three years, subject to proper installation and maintenance.

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

## Dimensions

Dimensions are approximate and subject to change.



## Unit Warranty\*

Entire unit (excluding lamps and fuses) carries a 3-year Full Warranty. For complete warranty information, see Data Sheet ELW.

## Battery Warranty\*

Unit batteries are warranted as follows:

**Sealed Nickel Cadmium:** 24LSC– 10 year life expectancy 5-year Full Warranty, plus 5-year prorata warranty.

**Sealed Long Life Lead:** 24LSE– 12 year life expectancy 5-year Full Warranty, plus 5-year prorata warranty.

**Sealed Lead Calcium:** 24LSM– 8 year life expectancy 3-year Full Warranty, plus 3-year prorata warranty.

**Sealed Lead Calcium (Immobilized Electrolyte):** 24LC–12- year life expectancy. 5-year full warranty, plus 5-year pro rata warranty.

\*Subject to proper installation and maintenance

## Unit Rating

Furnished standard with two 9 watt High Intensity Incandescent lamps.

Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	Watts to 87-1/2% of rated battery voltage*				# of Load Fuses	Cabinet size
			1-1/2 hrs	2 hrs	3 hrs	4 hrs		
Nickel-Cadmium	24	24LSC72-2	72	42	24	12	2	B
	24	24LSC100-2	100	73	37	20	2	B
Long Life Lead	24	24LSE72-2	72	48	26	14	2	B
	24	24LSE110-2	110	74	43	21	2	B
	24	24LSE320-2	320	300	148	76	2	D
Lead-Calcium (Immobilized Electrolyte)	24	24LC300-2	300	240	132	72	2	D
	24	24LC350-2	350	280	168	96	2	D
	24	24LC400-2	400	336	192	96	2	D
Lead-Calcium	24	24LSM110-2	110	72	40	24	2	B
	24	24LSM220-2	220	144	80	48	2	C

\*National Electrical Code Specification.

## How to Order

COLOR	SERIES/CAPACITY	# OF LAMPS	HEAD STYLE	LAMP TYPE	OPTIONS
Blank= Off white B= Black enclosure	<b>LSC Series</b> <b>24LSC100</b> = 24V-100W Ni-Cd  <b>LSE Series</b> <b>24LSE72</b> = 24V-72W Long Life Lead <b>24LSE110</b> = 24V-110W Long Life Lead <b>24LSE320</b> = 24V-320W Long Life Lead  <b>LSM Series</b> <b>24LSM110</b> = 24V-110W Lead-Calcium <b>24LSM220</b> = 24V-220W Lead-Calcium  <b>LC Series</b> <b>24LC300</b> = 24V-300W Lead-Calcium <b>24LC350</b> = 24V-350W Lead-Calcium <b>24LC400</b> = 24V-400W Lead-Calcium	<b>-0</b> = No heads <b>-1</b> = 1 head <b>-2</b> = 2 heads <b>-3</b> = 3 heads	<b>Blank</b> = EF18 (PAR 36 plastic) <b>28</b> = EF28 (PAR 36 metal) <b>9</b> = EF9 mini plastic <b>10</b> = EF10 mini plastic MR16 <b>32</b> = EF32 cylinder lamp heads <b>150</b> = EF150 MR16 lamp heads	<b>I</b> _ = Incandescent DC-bayonet <b>Z</b> _ = Incandescent wedge <b>M</b> _ = Halogen MR16* <b>LL</b> = 24V-4W, MR16 LED	<b>Blank</b> = No options <b>-AD</b> = Advanced diagnostics* <b>-ADNA</b> = Diagnostics non-audible* <b>-NEX</b> = Nexus® wired <b>-NEXRF</b> = Nexus® wireless <b>-V</b> = Voltmeter (A cabinet units. Choose A or V only) <b>-A</b> = Ammeter* <b>-D1</b> = Time Delay (5 minutes) <b>-D2</b> = Time Delay (10 minutes) <b>-D3</b> = Time Delay (15 minutes) <b>-CP</b> = Cord and plug 120V** <b>-E</b> = Cord and plug 277V

\* Available with EF10 & 150 only  
 \*\* Available with EF18 & EF28 only  
 NOTE: For a complete list of available lamp types, please refer to the lamp data on pages 146-147

\* Minimum lamp load required: 20% of unit capacity. Not available with 24V-100W Ni-Cd  
 \*\* Standard cord is 3 ft.

Example: **24LSC100-2150MH**