



Shown: LC85X0G2



## Housing

- Impact resistant, fiberglass reinforced polyester, gray enclosure is suitable for NEMA 3, 4x, and 12 areas
- Fully gasketed
- Standard internal mounting or external mounting feet for installation flexibility
- View through window enables easy monitoring of AC indicator and optional metering
- Lamp heads constructed of polycarbonate with optional shatter-resistant lamp head shields

## Electronics

- 120/277 VAC dual voltage input capability
- LightGuard's high performance, temperature compensated charger restores battery to full charge within UL 924 requirements
- Constant current charger on nickel cadmium units
- Brownout protection activates lights when AC voltage drops 20% below nominal
- Labor saving AC lockout feature
- Low voltage disconnect switch (LVD) prevents deep battery discharge

## Electrical Specifications

120 VAC - 0.42 amps, 50.4 watts  
 277 VAC - 0.20 amps, 50.4 watts

## Code Compliance

- UL 924 listed
- NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- NSF listing standard

## Warranty

Electronics: 3 years

Battery: 5 years full, 10 years pro-rata (LEC-361)  
 3 years full, 7 years pro-rata (LC-310)  
 5 years full, 5 years pro-rata (Nickel Cadmium)  
 1 year full, 4 years pro-rata (Lead Calcium) (Pure Lead)

## Application

- Industrial locations where a NEMA-rated emergency unit with remote fixture capability is desired
- Ideal for food processing areas

# Luminator Series

**Corrosion and Moisture Resistant**

**6 Volt, 25 - 100 Watts  
 12 Volt, 50 - 180 Watts**

**Lead Calcium, Nickel Cadmium or Pure Lead Battery**

**Enclosure Meets NEMA 3, 4x, and 12**

## Batteries

- LEC-361 sealed lead calcium battery requires no addition of water and includes a 15 year warranty (LC85 only)
- LC-310 sealed lead calcium battery requires no addition of water and includes a 10 year warranty (LC80 only)
- Maintenance free, sealed lead calcium or pure lead battery has an expected service life of 5 years with an operating range of 65°F (19°C) to 85°F (30°C)\*\*
- Maintenance free, sealed nickel cadmium battery has an expected service life of 10 years, operating range of 20°F (-7°C) to 95°F (35°C)\*\*
- Pure lead battery is available on model LTL120

\*\* Increases or decreases in temperature will affect battery performance and/or capacity. Optimum battery performance realized at 77°F (25°C).

## Self-Diagnostics (optional)

- OnmiTest Self-Diagnostics option includes automatic and manual tests to ensure unit is operating properly, and assists user in meeting code requirements.
- Verifies battery voltage and lamp continuity every 10 seconds.
- Illuminates lamps and discharges battery for 3 minutes every 30 days. A manual test is available from 1 to 90 minutes.

## Operation

DC Voltage	Unit	Suggested Lamp Head	Watts to 87½ of Rated Voltage <sup>+</sup>			
			1½ hrs.	2 hrs.	4 hrs.	8 hrs.
6	<b>LC85</b>	XOG	87.0	65.0	42.0	24.0
	<b>LC80</b>	XOG	85.0	65.0	24.0	14.0
	<b>LC28</b>	XMG	28.0	21.0	13.5	—
	<b>LC50</b>	XNG	50.0	37.5	24.0	8.5
	<b>LC75</b>	XPG	75.0	56.5	28.5	15.0
	<b>LC100</b>	XPG	100.0	75.0	48.0	17.0
	<b>LN25</b>	XVG	25.0	19.0	12.0	—
	<b>LN50</b>	XOG	50.0	37.5	24.0	8.5
	<b>LN70</b>	XPG	70.0	52.5	33.6	11.9
12	<b>LTC50</b>	XWVG	50.0	37.5	24.0	8.5
	<b>LTC100</b>	XXG	100.0	75.0	48.0	17.0
	<b>LTC125</b>	XXG	125.0	94.0	60.0	21.5
	<b>LTC150</b>	XXG	150.0	112.5	72.0	25.5
	<b>LTC180</b>	XXG	180.0	135.0	86.5	31.0
	<b>LTN25</b>	XXG	25.0	19.0	12.0	—
	<b>LTN50</b>	XXG	50.0	37.5	24.0	8.5
	<b>LTN100</b>	XXG	100.0	75.0	48.0	17.0
	<b>LTN125</b>	XXG	125.0	94.0	60.0	21.5
	<b>LTN150</b>	XXG	150.0	112.5	72.0	25.5
	<b>LTL120</b>	XXG	120.0	90.0	58.0	20.0

<sup>+</sup> Per NEC Specifications

# Luminator Series

## Ordering Information

MODEL	LAMP HEAD	# OF HEADS	OPTIONS <sup>1</sup>
<b>6 Volt</b> <b>LEC-361 Battery</b> <b>LC85</b> = 6 volt, 87 watt unit  <b>LC-310 Battery</b> <b>LC80</b> = 6 volt, 85 watt unit  <b>Sealed Lead Calcium Battery</b> <b>LC28</b> = 6 volt, 28 watt unit <b>LC50</b> = 6 volt, 50 watt unit <b>LC75</b> = 6 volt, 75 watt unit <b>LC100</b> = 6 volt, 100 watt unit  <b>Sealed Nickel Cadmium Battery</b> <b>LN25</b> = 6 volt, 25 watt unit <b>LN50</b> = 6 volt, 50 watt unit	<b>12 Volt</b> <b>Sealed Lead Calcium Battery</b> <b>LTC50</b> = 12 volt, 50 watt unit <b>LTC100</b> = 12 volt, 100 watt unit <b>LTC125</b> = 12 volt, 125 watt unit <b>LTC150</b> = 12 volt, 150 watt unit <b>LTC180</b> = 12 volt, 180 watt unit  <b>Sealed Nickel Cadmium Battery</b> <b>LTN25</b> = 12 volt, 25 watt unit <b>LTN50</b> = 12 volt, 50 watt unit <b>LTN100</b> = 12 volt, 100 watt unit <b>LTN125</b> = 12 volt, 125 watt unit <b>LTN150</b> = 12 volt, 150 watt unit  <b>Sealed Pure Lead Battery</b> <b>LTL120</b> = 12 volt, 120 watt unit <sup>2</sup>	See lamp head selection chart below.  <b>3</b> = Three <b>2</b> = Two <b>1</b> = One <b>blank</b> = No lamp heads	<b>ACF1</b> = 120 VAC Fuse <b>ACF2</b> = 277 VAC Fuse <b>ACP1</b> = 120 VAC Power Switch <b>ACP2</b> = 277 VAC Power Switch <b>DCP</b> = DC Power Switch <b>EX</b> = Special Input Transformer (Specify voltage & frequency) <b>HTR1</b> = 120 VAC Heater <sup>1</sup> (Not UL listed) <b>HTR2</b> = 277 VAC Heater <sup>1</sup> (Not UL listed) <b>OT</b> = OmniTest Self-Diagnostics <b>OTAL</b> = OmniTest with Alarm <b>OTTD</b> = OmniTest with Time Delay <sup>3</sup> <b>TD1</b> = 120 VAC Time Delay <sup>3</sup> <b>TD2</b> = 277 VAC Time Delay <sup>3</sup> <b>S</b> = Shatter Resistant Lamp Lens

### NOTES:

- 1) Some option combinations may impact UL listing. Consult factory for specifics.  
 2) Not available with OT, OTAL, or OTTD options.  
 3) 15 minute delay.

## Lamp Head Selection

LightGuard's industrial grade "X" head is the suggested lamp head for the Luminator Series. The "X" head is a sealed beam PAR 36 lamp head constructed of gray polycarbonate. For additional lamp heads, please refer to the Accessories section of the LightGuard Specification Binder.

Type	Wattage					
	6	8	12	18	25	30
<b>6 Volt</b>						
Tungsten		<b>XMG</b>		<b>XNG</b>	<b>XOG</b>	<b>XPG</b>
Halogen		<b>XUG</b>	<b>XVG</b>			
<b>12 Volt</b>						
Tungsten			<b>XQG</b>	<b>XRG</b>	<b>XSG</b>	<b>XTG</b>
Halogen	<b>XZG</b>	<b>XWG</b>	<b>XXG</b>			

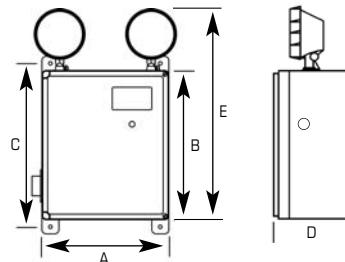
### ACCESSORIES (Ordered Separately)

**WG5** = Wire Guard (25 - 75 watt)  
**WG** = Wire Guard (85 - 180 watt)  
**URT612N** = Universal Remote Test, NEMA Enclosure

## Ordering Example

Model LC85 XOG 2 OT  
 Lamp Head \_\_\_\_\_  
 # of Heads \_\_\_\_\_  
 Options \_\_\_\_\_

## Dimensions



DIMENSIONS					
25 W TO 75 W			80 W TO 180 W		
A	11.2"	(28.4 cm)	A	13.2"	(33.5 cm)
B	13.2"	(33.5 cm)	B	15.2"	(38.6 cm)
C	14.4"	(36.6 cm)	C	16.4"	(41.7 cm)
D	6.6"	(16.7 cm)	D	7.1"	(18.0 cm)
E	19.4"	(48.7 cm)	E	21.4"	(53.8 cm)

Dimensions are approximate and subject to change.

## Suggested Specification

Furnish and install LightGuard emergency lighting model \_\_\_\_\_. The unit shall be listed to Underwriters Laboratories, Inc. Standard #924.

**INSTALLATION /OPERATION** - Unit shall be easily field connected to a 120 or 277 volt, 60 hertz, unswitched power source. Installation must comply with the NEC Code as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination for a minimum period of 90 minutes. Upon restoration of utility power on some units, the charger shall restore the battery to full charge within UL 924 standard following a rated discharge of not more than 90 minutes.

**CHARGER** - Battery chargers shall recharge to rated capacity in accordance with UL 924. Lead calcium, LEC-361, LC-310 and pure lead battery units shall utilize a fully automatic, voltage regulated, current limited, solid-state charger. Nickel cadmium battery units shall utilize a constant current, solid-state charger. Select units shall utilize a temperature compensated charger to assure proper charging in variable ambient temperatures. The following features shall be standard: Low Voltage Disconnect (LVD), Brownout Protection; AC Lockout.

**BATTERY** - The unit shall incorporate the \_\_\_\_\_ (sealed lead calcium, sealed nickel cadmium, pure lead, LEC-361 or LC-310) battery.

**HOUSING** - The cabinet shall be compression molded, fiberglass-reinforced, polyester chemically resistant to corrosive atmospheres. Unit shall incorporate internal mounting holes. In addition to external mounting feet, a formed-in-place non-removable gasket and non-removable hinged covers shall be included. Cabinet shall have a clear viewing port to allow unobstructed monitoring of voltmeter/ammeter and charge status LED. Enclosure shall meet the NEMA requirements for 3, 4x, and 12.

**SELF-DIAGNOSTICS (optional)** - The unit shall include OmniTest self-diagnostics. OmniTest shall conduct the following automatic tests: battery voltage and lamp continuity every 10 seconds, a 3 minute battery discharge and lamp illumination test every 30 days, and a 30 minute battery discharge and lamp illumination test every 6 months. OmniTest shall also conduct the following manual tests: three minute, 30 minute and 90 minute battery discharge and lamp illumination tests and optional audible alarm.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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