



# Assurance

## Emergency Lighting



## Product Catalog

Assurance Emergency Lighting, a division of Assurance Engineering LLC

The goal of Assurance Emergency Lighting is to provide the best emergency lighting solution. Our staff of emergency lighting experts are not only knowledgeable but are determined to deliver quality and dependable products.

We are located in Memphis, Tennessee and sell through a nationwide network of lighting agents. Our product lines include LED emergency drivers, fluorescent emergency ballasts, emergency lighting inverters and ALCR-Bypass lighting control relays. Additionally, we continue to expand our solutions portfolio with innovative products.



*Our assurance to you  
To over-deliver and exceed your expectations  
of our emergency lighting products and  
customer service.*

### **Assurance of Service**

Provide the highest service levels and short response times. Maintain stock on hand for quick deliveries

### **Assurance of Quality**

Ensure that the design and performance of provided products and solutions are of the highest standards in our industry

### **Assurance of Innovation**

Implement continuous product design, process improvements and new product development based on customer needs





# Life Safety Innovation

Assurance Emergency Lighting provides a variety of life safety, code-compliant emergency lighting solutions that fit your specifications.

With today's constantly evolving lighting technology, finding the best solution for your emergency lighting needs can prove challenging. Assurance Emergency Lighting delivers the highest quality products and extraordinary customer service to provide the best emergency lighting solutions to meet code requirements and beyond.

## Solving your life safety needs

Assurance Emergency Lighting has a large and growing portfolio of emergency lighting products that can provide the best lighting solution to fit every location.



### LED Emergency Drivers

The L Series LED Emergency Drivers allow for LED luminaires to be used for both normal and emergency operation.



### Emergency Lighting Inverters

Our innovative SI Series inverters provide easy emergency lighting solutions for areas with multiple fixtures, varying lamp types or the need for remote installation.



### Fluorescent Emergency Ballasts

The fluorescent industry may be shrinking but it isn't going away any time soon. Our assortment of RHB Series emergency back-up ballasts will provide an emergency solution for your new or existing lighting.



### Automatic Load Control Relays

For systems with auxiliary generators or inverters, our D Series Automatic Load Control Relays sense power loss and bypass installed switches, dimmers, timers and sensors to provide fixtures with full power during emergency operation.

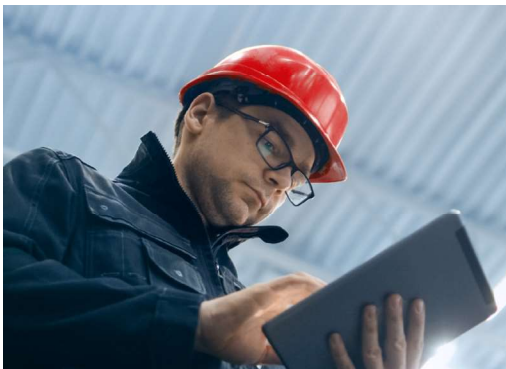




# Code Requirements



Life Safety is critical during emergency situations and power failures. Codes and regulations have been established to ensure reliable and sufficient illumination to guide building occupants along the path of egress to the nearest exit when normal power fails for any reason.



Emergency backup devices must provide battery power for a minimum of 90 minutes, and must power the lamps to provide at least 1 Foot Candle of illumination on the floor. Emergency ballasts, drivers, and inverters allow the same fixture to be used for both normal and emergency operation. All Commercial and Government buildings in the US are required by law to provide emergency lighting in the path of egress. Life Safety Code NFPA 101, UL924.

State and local building codes will vary. Most are based on the following:

- Life Safety Code®, NFPA 101®
- National Electrical Code®, NFPA 70®
- Occupational Safety and Health Act (OSHA) regulations



**UL 924**

These codes provide complete information about emergency lighting requirements and must be considered when specifying or installing devices used to provide emergency lighting.

# L Series

## LED Emergency Drivers



The L Series emergency LED Drivers are the best choice for applications using LED boards or arrays operated by an external Class 2 AC driver.

Our emergency LED drivers can be installed inside, on top of, or remotely from a fixture to operate a single fixture during an emergency operation. When normal AC power fails, the Assurance emergency LED drivers switch into emergency mode and support LED fixtures for 90 minutes. When AC power is restored, the emergency drivers automatically return to the charging mode. Numerous L Series emergency LED drivers are available for different applications and mounting heights to meet life safety codes.



Product Specifications	L25	L16	L8
Input Voltage	120 - 277 VAC, 50/60 Hz	120 - 277 VAC, 50/60 Hz	120 - 277 VAC, 50/60 Hz
Input Power	8 Watts (max)	6 Watts (max)	5 Watts (max)
Output Voltage Range	18 - 54 Vdc	15 -54 Vdc	15 - 54 Vdc
Class 2 Compliant	Yes	Yes	Yes
Output Power	25 Watts	16 Watts	8 Watts
Emergency Run Time	90 Minutes	90 Minutes	90 Minutes
Estimated Lumen Output *	3500 Lumens	2240 Lumens	1120 Lumens
Operating Temperature	0° - 50° C	0° - 50° C	0° - 50° C
Battery	Highly Efficient Lithium	Highly Efficient Lithium	Highly Efficient Lithium
Recharge Time	36 Hours	36 Hours	24 Hours
Approvals	UL Listed	UL Listed	UL Listed
Dimensions	17.14" L x 2.13" W x 1.57" H	17.14" L x 2.13" W x 1.38" H	14.8" L x 2.13" W x 1.38" H
Weight - without conduit	(L25) 2.8 lbs	(L16) 2.4 lbs	(L8) 2.0 lbs
with single conduit	(L25-C) 3.0 lbs	(L16-C) 2.6 lbs	
with dual conduit	NA	NA	(L8-DC) 2.2 lbs

\* Estimated Lumen calculation is based on 140 Lumen per watt system

# Si Series

## Emergency Lighting Inverters

The Si Series emergency lighting inverters operate LED and fluorescent fixtures with pure sinusoidal power during loss of normal AC power. The inverters are designed to operate designated fixtures on emergency power at their full rating during the 90 minute emergency discharge cycle regardless of the local switch position and in accordance with UL 924 life safety code requirements.



The inverter unit allows connected emergency fixture(s) to be normally on, normally off or switched without affecting lamp operation during a power failure.



	Si-600	Si-400	Si-250	Si-125	Si-36
Input Voltage	Dual input 120 / 277	Dual input 120 / 277	Model dependent 120VAC or 277VAC	Model dependent 120VAC or 277VAC	120 thru 277 VAC
Output Power	600W	400W	250W	125W	36W (27W w/non-dimmable load)
Self-Testing, Self-Diagnostic	NA	NA	Monthly report on user interface panel	Monthly report on user interface panel	Monthly and Annual
Dimensions	23.25"L x 15"W x 8.25"D	18"L x 15"W x 8"D	17.27"L x 11.09"W x 8.6"D	14.27"L x 10.09"W x 4.11"D	13.54"L x 3.23"W x 1.18"D
Weight	122 lbs	98 lbs	64 lbs	32 lbs	3.0 lbs
Approval	ETL to UL924	ETL to UL924	UL Listed - UL924	UL Listed - UL924	UL Listed - UL924 CEC Title 20



# RHB Series

## Fluorescent Emergency Ballasts



In the event of a power failure, the RHB Series fluorescent emergency ballast takes over from the AC ballast and operates 1 or 2 lamps at a reduced lumen output for a minimum period of 90 minutes.

Assurance emergency lighting offers a full range of emergency ballasts for factory or field installation for linear or compact lamp fluorescent fixtures. RHB emergency ballasts allow you to convert new or existing fluorescent fixtures into code-compliant emergency lighting. Depending on application and model, the units can be installed inside, on top of or remotely from the fixture. Each unit is UL Listed for UL924 emergency lighting compliance.



Model	Max Lumens	Lamps Operated	Feature
RHB1402	1400	1 - 2 T8 linear lamps	
RHB1201	1200	1 T5 or T8 linear lamp	
RHB1301LP	1300	1 lamp T5, T8 and long compact	Low Profile, space-limited fixtures
RHB831LP	830	1 lamp - T5, T8 and long compact	Low Profile, space-limited fixtures
RHB702	700	1 - 2 T8 & T12 lamp(s), 1 lamp - long compact	
RHB701	700	1 T8 or 1 T12 lamp	
RHB501	500	1 T8 or 1 T12 lamp	
RHB751C	750	4-Pin compact and long compact lamps	



# D Series

## Automatic Load Control / Bypass Relays



*Dimming Compatible!*

The Assurance Emergency Lighting ALCR Devices can be used as Automatic Load control or Bypass devices to turn on emergency lighting loads from generators or inverters in the event of normal power interruption. Several models are available for installation either inside or external to the luminaire. They are also compatible with dimming systems and allow the normally dimmed luminaire to turn on to full power during the emergency operation.



	ALCR-D20	ALCR-D20DZ (Dual-Zone)	ALCR-D10	ALCR-D3
Input Voltage	120 - 277 V	120 - 277 V	120 - 277 V	120 - 277 V
Input Current (mA)	24	120	24	60
Load Rating (electronic driver) (A)	16	8	10	3
Operating Temp.	-35° - 60° C	-20° - 55° C	-35° - 60° C	-0° - 55° C
Approvals	UL 924 Listed, damp location	UL 924 Listed, damp location	UL 924 Listed, damp location	UL 924 Listed
Mounting	1/2" Stud	1/2" Stud	Channel	Channel
0-10V Override Dimming Bypass	Yes	Yes	Yes	Yes
Remote Testing	Yes	Yes	Yes	No
Warranty	5 Years	5 Years	5 Years	5 Years





Quality + Experience + Service + Innovation

# Solutions

Emergency Lighting Made Easy

Assurance Emergency Lighting is an independently owned manufacturer of innovative emergency lighting products located in Memphis Tennessee. We deliver the highest quality products and provide extraordinary customer service.

## *Customer Service*

Quality and Service are our highest priorities. We are here to answer your questions and help you find solutions. Contact us with questions about products, pricing, ordering information, literature requests and new product opportunities.

## *Technical Support*

Assurance Emergency Lighting is committed to supporting our customers and making it as easy as possible to do business. Our product experts are available to offer technical assistance and support your needs. If you have questions about installation, applications, wiring diagrams or other technical concerns, we'll help you find the answer.

**1-877-774-4775**

Assurance Emergency Lighting . 357 Cumberland Street . Memphis, TN 38112 . [www.assurancelighting.com](http://www.assurancelighting.com)





*“It’s all about the customer experience”*





# Assurance Emergency Lighting Product Line

## **L** Series – LED Emergency Drivers

Models: L25 - 25 Watt emergency LED driver  
L16 - 16 Watt emergency LED driver  
L8 - 8 Watt emergency LED driver

## **Si** Series – Emergency Lighting Inverters

Models: Si-600 - 600 Watt emergency inverter  
Si-400 - 400 Watt emergency inverter  
Si-250 - 250 Watt emergency inverter, Self-diagnostic  
Si-125 - 125 Watt emergency inverter, Self-diagnostic  
Si-36 - 36 Watt emergency inverter, Auto Test

## **RHB** Series – Fluorescent Emergency Ballasts

Models: RHB1402 - 1400 lumens emergency illumination for linear lamps  
RHB1201 - 1200 lumens emergency illumination for linear lamps  
RHB1301LP - 1300 lumens, Low Profile EM ballast for space-limited fixtures using linear lamps  
RHB831LP - 800 lumens, Low Profile EM ballast for space-limited fixtures using linear lamps  
RHB702 - 700 lumens emergency illumination for 1-2 linear lamps  
RHB701 - 700 lumens emergency illumination for one (1) linear lamp  
RHB501 - 500 lumens emergency illumination for one (1) linear lamp  
RHB751C - 750 lumens emergency illumination for 4-pin compact lamps

## **D** Series – Automatic Load Control / Bypass Relays

Models: ALCR-D20 - 16 Amp (LED driver). Dimming compatible  
ALCR-D20DZ - 8 Amp (LED driver). Dimming compatible, dual zone  
ALCR -D10 - 10 Amp, Dimming compatible  
ALCR-D3 - 3 Amp, Dimming compatible



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