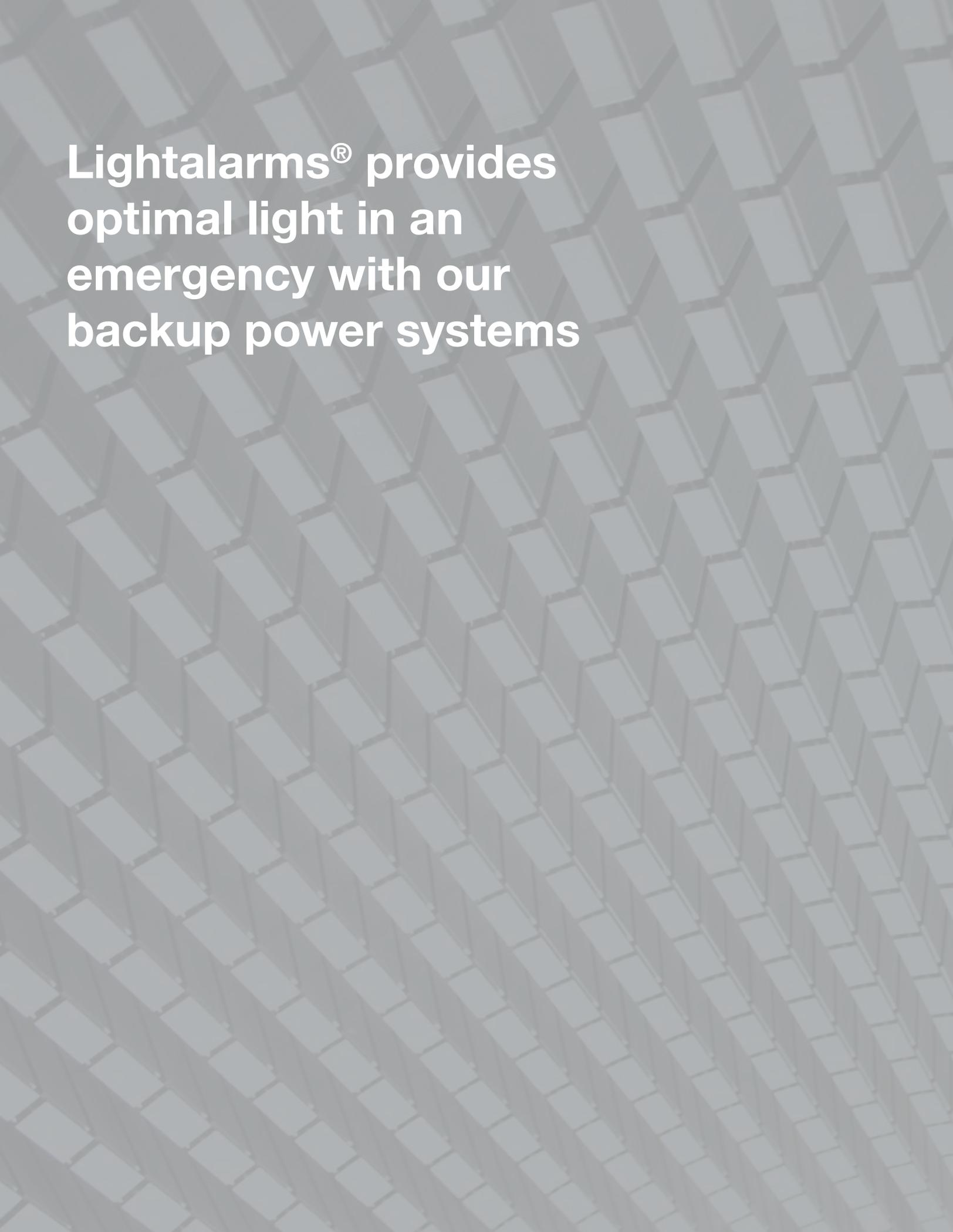


# Emergency Power for Lighting

Your complete guide to using inverters  
and central systems to power emergency lights



**Lightalarms® provides  
optimal light in an  
emergency with our  
backup power systems**

# Table of contents

		
	<b>Benefits</b> 2	<b>Emergency lighting solutions</b> 4
		
<b>Market improvements</b> 5	<b>Product matrix</b> 6	<b>Transform existing lights to emergency lights</b> 8
		
	<b>EPC Series</b> 8	<b>LED Drivers</b> 10
		
<b>Low Capacity Mini Inverters</b> 12	<b>Mini Inverters</b> 14	<b>High Capacity Mini Inverter</b> 16
		
	<b>Central Power Systems</b> 18	<b>Nexus® real-time automated monitoring</b> 20

# Benefits of using existing lights as your emergency lights

We all know the feeling of walking in a large building and having no idea where to go. Roaming through hallways, taking wrong turns or trying to find your way out of a building can be difficult, especially in the event of an emergency.

**Emergency lighting and exit signs are essential for commercial buildings, where individuals need to evacuate quickly and safely.**

Now imagine if your normal electrical supply is interrupted by an emergency, but instead of just emergency and exit signs, your existing lights worked in conjunction with your emergency lights to illuminate and direct occupants to the nearest exit. Using your existing lights as emergency lights could provide dual support, allowing individuals in the building to see clearly, avoid obstacles and confidently find to the nearest exit during a power failure.

Use your existing lights as an emergency lighting solution

- **Keep building aesthetics in place**  
Maintain the look of existing lights without adding separate emergency lighting units. Ideal for rooms with specific architectural designs, reception areas and lobbies, as well as in commercial and retail spaces.
- **Comply with life safety codes**  
As emergency lighting is directly linked to life safety, codes and regulations demand strict compliance in the design, installation and maintenance of a fixture and other emergency lighting equipment.
- **Reduce initial and ongoing costs**  
By eliminating the need for separate emergency lighting units, initial installation costs are significantly reduced. Using inverters instead of self-powered emergency lights simplifies maintenance and testing.





# Lightalarms®

## Your complete emergency lighting solution

Lightalarms® is a leading provider of high-performance life safety equipment.

### **Made in North America**

- Our products are designed, manufactured and tested at our state-of-the-art North American Manufacturing Center of Excellence. Through our warehousing and distribution networks across the United States, we offer expedited shipping options for quick delivery.

### **High-quality and performance standards**

- Rely on Lightalarms® for expert advice on planning systems, ease of installation, safety and long-term reliability. We provide outstanding quality levels, easy ordering capabilities and knowledgeable customer service.

### **Our technical design experts will**

- Calculate the distance between lighting units needed for emergency lighting at floor level. These calculations consider lamp power, installation height, exit path width, and surface reflectivity.
- Show how different configurations affect installation and ongoing maintenance and testing.
- Analyze your requirements and provide a certified technical drawing displaying how your emergency lighting plan meets code requirements.



The Lightalarms® state-of-the-art North American manufacturing facility is a center of excellence thanks to the commitment, expertise, and creativity of every employee.

# Innovative Mini Inverter improvements

Lightalarms® is at the forefront of new, innovative lighting design applications. From the introduction of our first Mini Inverter in 2014 to the latest high capacity Mini Inverters, our product teams continue to transform the emergency lighting landscape.

## Get a glimpse of our product launches:

The reduced footprint of our **upgraded central system series** allow for the optimization of your valuable equipment floorspace.



400W, 720W Mini inverter with 4 circuit and load shedding and NexusPro

**High-Capacity Mini Inverter with Load Shedding option** offers cost-effective solutions by reducing light levels when necessary.



1,000W High Capacity Mini Inverter with 4-output circuit



LED Drivers



720W Mini Inverter

2022

LFT/LIPS and LFTM Series



2021

Our **High-Capacity Mini Inverter with 4 circuit and load shedding option** offers NexusPro compatibility for easy emergency lighting maintenance.

2019

250W & 1,000W High Capacity Mini Inverter



2018

Our **High-Capacity Mini Inverter with 4-output circuit** offers more capabilities than our previous inverters to best serve the evolving emergency lighting market.

2017

1,000W High Capacity Mini Inverter



2016

125W, 250W, 400W Mini Inverters



2014

Central Systems

2007



*Lightalarms*

# Lightalarms®

## Product matrix

	LED Drivers	Mini Inverters		
	LALDR Series	Low Capacity Mini Inverter Series	Mini Inverter Series	Mini Inverter 1000W
				
Certification				
Housing	High Impact Thermoplastic	Heavy-duty steel cabinet	Heavy-duty 14-gauge steel cabinet	Heavy-duty 14-gauge steel cabinet
Application	NEMA 1 Damp Location	NEMA 1	NEMA 1	NEMA 1
Testing	Manual remote test switch 90 Minutes Emergency Operation	Manual Test Switch 90 Minutes Emergency Operation	Non-Audible self-diagnostic (Standard) Advanced-diagnostic, audible (Optional) Manual Test Switch (Optional) <b>nexus</b> (Optional)	Non-Audible self-diagnostic (Standard) Advanced-diagnostic, audible (Optional) Manual Test Switch (Optional) <b>nexus</b> (Optional)
Battery	Nickel-Cadmium	Lead-Calcium	Lead-Calcium	Lead-Calcium
Mounting	Suitable for installation on top or remotely (up to 50')	Surface mount Recessed T-bar (plenum rated) Remote mounting up to 1000'	Surface mount Optional recessed T-bar (125W unit only)	Surface mount
Load capacity/wattage output	<b>5W, 7W, 11W, 14W, 17W</b>	<b>32W, 55W</b>	<b>125W, 250W, 400W, 720W</b>	<b>1000W</b>
Voltage	120/277 VAC, 50/60Hz Input	120/277 VAC, 60Hz Input	120/120VAC or 277/277VAC, 60Hz Input	120/120VAC or 277/277VAC, 60Hz Input
Lumen output	Lumen output depends on LED light source efficacy (Lumens/watts)	Full Brightness Output	Full Brightness Output or % with Load shedding (250, 400 and 720 watt only)	Full Brightness Output or % with Load shedding
Options	-	*Control panel with momentary test switch, AC-On, Charger-On *Inverter-On LED indicators	*Load shedding (250W only) *15min Time Delay *Service Alarm contact *4 output circuit (400W and 720W)	*Load shedding *15min Time Delay *Service Alarm contact *4 output circuits
Compatibility	LED lamps with 20VDC to 50VDC operating voltage	Lamps: LED, Incandescent and Fluorescent	Lamps: LED, Incandescent and Fluorescent	Lamps LED, Incandescent and Fluorescent
Warranty	5 Years	3 Years	3 Years	3 Years
Operation	Normally-on, normally off or switched loads	Normally-on, normally off or switched loads	Normally-on, normally off or switched loads	Normally-on, normally off or switched loads
Electronics	-	Pure sine wave Inverter	Pure sine wave Inverter	Pure sine wave Inverter



### Central Systems

LFTM Series 1000-2800VA	LFT/LIPS Single Phase Series	3FTC Three Phase Series	FTC3R, 3FTC3R Series Outdoor
			
			
Heavy Duty Steel	Heavy Duty Steel	Heavy Duty Steel	Heavy Duty Steel
NEMA 1	NEMA 1	NEMA 1	NEMA 3R
Manual Test Self-Test / Diagnostics	Manual Test Self-Test / Diagnostics	Manual Test Self-Test / Diagnostics	Manual Test Self-Test / Diagnostics
Lead-Calcium	Lead-Calcium	Lead-Calcium	Lead-Calcium
Wall Mount Floor Mount (Optional) Seismic Mount (Optional)	Seismic Mount (Optional)	Floor Mount	Floor Mount
<b>2800W</b>	<b>16,700W</b>	<b>50,000W</b>	<b>8000W</b>
120, 208, 240, 277 VAC 60Hz	120, 208, 240, 277, 347 VAC	120/208 VAC, 60Hz or 277/480 VAC, 60Hz	120, 208, 240, 277, 120/208, 277/480 VAC, 60Hz
Full Brightness Output	Full Brightness Output	Full Brightness Output	Full Brightness Output
*Output Circuit Breakers *Alarm contacts *BYPass relays	*Output Circuit Breakers *Alarm contacts *BYPass relays *And more...	*Output Circuit Breakers *Alarm contacts *BYPass relays *And more...	*Output Circuit Breakers *Alarm contacts *BYPass relays *And more...
Lamps: LED, Fluorescent, Incandescent, HID	Lamps: LED, Fluorescent, Incandescent, HID	Lamps: LED, Fluorescent, Incandescent, HID	Lamps: LED, Fluorescent, Incandescent, HID
1 Year	1 Year	2 Years	2 Years
Normally-on, normally off or switched loads	Normally-on, normally off or switched loads	Normally-on, normally off or switched loads	Normally-on, normally off or switched loads
Pure sine wave Inverter	Pure sine wave Inverter	Pure sine wave Inverter	Pure sine wave Inverter

# 4 ways to transform your lights to emergency lights

## 1 EPC Series Emergency power control for generator and mini inverters



### Supplies power to switched lighting fixtures

- Ideal for locations with limited space to house power systems
- Automatically connects generator or inverter circuit to emergency fixture
- Allows switching control of emergency fixtures during normal operation
- Compatible with LED, fluorescent and incandescent lamp types

## 2 LED Drivers For individual LED lights



### Ideal for retrofit installations

- Space-saving design mounts directly on or in a fixture
- Compact power source operates one or two lamps in a fixture
- Units do not interfere with the look of existing lights



### 3 Mini Inverters

For multiple luminaires requiring up to 1,000W at a distance of up to 1,000 feet



**The most versatile, flexible emergency power option**

- Delivers 100% power/lumen output of the fixture
- Ideal for locations with limited space to house power systems

### 4 Central Power Systems

For multiple luminaires and additional equipment



**Ideal for indoor and outdoor industrial applications requiring high-wattage supplemental power**

- Works with any type of lighting load to provide full light output for a minimum of 90 mins
- Front access connections for easy installation
- Full system protection increases electronic and battery lifetime



# LED Drivers

## 5-17W

### Use existing wiring on individual LED lights

LED Drivers are an ideal emergency power solution for retrofit applications.

- Flexible mounting options: can be installed on top of, or up to 150 feet away from the light fixture
- Operates normally-on, normally-off or switched loads
- Lumen output depends on LED light source efficacy (lumens/watts)
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements; UL924 Approved
- 5-year full warranty

High-impact thermoplastic enclosure, 5VA flame retardant in black finish



*Lightalarms*





# Low Capacity Mini Inverters

## 32W, 55W

### Power one or two lighting units

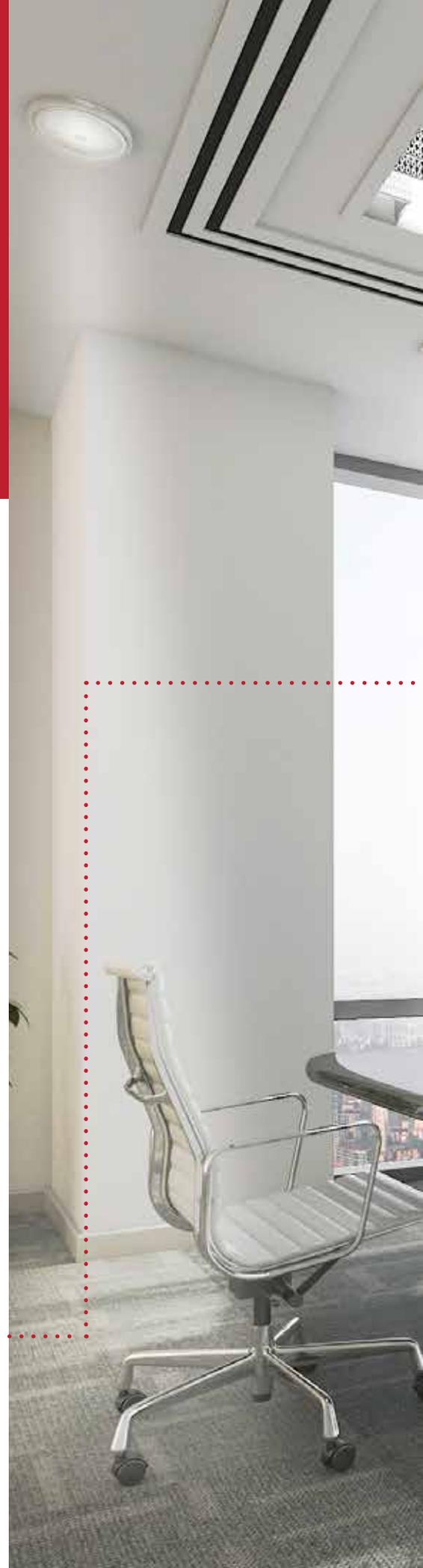
Low capacity Mini Inverters are ideal for single room applications such as convenience stores.

- Accommodates surface mount or T-grid installations (plenum rated)
- Allows remote mounting up to 1,000 feet from emergency lighting fixtures, eases testing
- Provides pure sine wave output to meet the specific requirements for emergency lighting
- Operates incandescent, LED, fluorescent and ballast combinations, including 0-10V dimmers
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements; UL924 Listed
- 3-year warranty and 7-year pro-rata battery warranty

Heavy-duty steel cabinet;  
scratch and corrosion  
resistant white powder  
paint finish



*Lightalarms*





# Mini Inverters

125W, 250W, 400W & 720W

**Power multiple lighting units,  
single output circuit**

Mini inverters offer single-point maintenance, Advanced Diagnostics and Nexus® compatibility.

- Accommodates surface/wall mounting or recessed T-bar mounting (125W unit only)
- Allows remote mounting up to 1,000 feet from emergency lighting fixtures; ideal for powering an entire floor in a building
- Provides pure sine wave output (250W and up) to meet the specific requirements for emergency lighting
- Operates incandescent, LED, fluorescent and ballast combinations, including 0-10V dimmers
- Supplies 100% lumen output with less than 1 second transfer time
- Runs switched, normally-on, or normally-off fixtures
- Minimizes maintenance with standard self-diagnostics, and optional Nexus® compatibility
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements; UL924 Listed
- 250W mini inverter has option load shedding
- 3-year warranty and 7-year pro-rata battery warranty

Heavy-duty steel cabinet;  
scratch and corrosion  
resistant white semi-gloss  
powder-coat paint finish



*Lightalarms*





# Mini Inverter

## 400W, 720W and 1000W with 4-output circuit for mixed loads of multiple lighting units

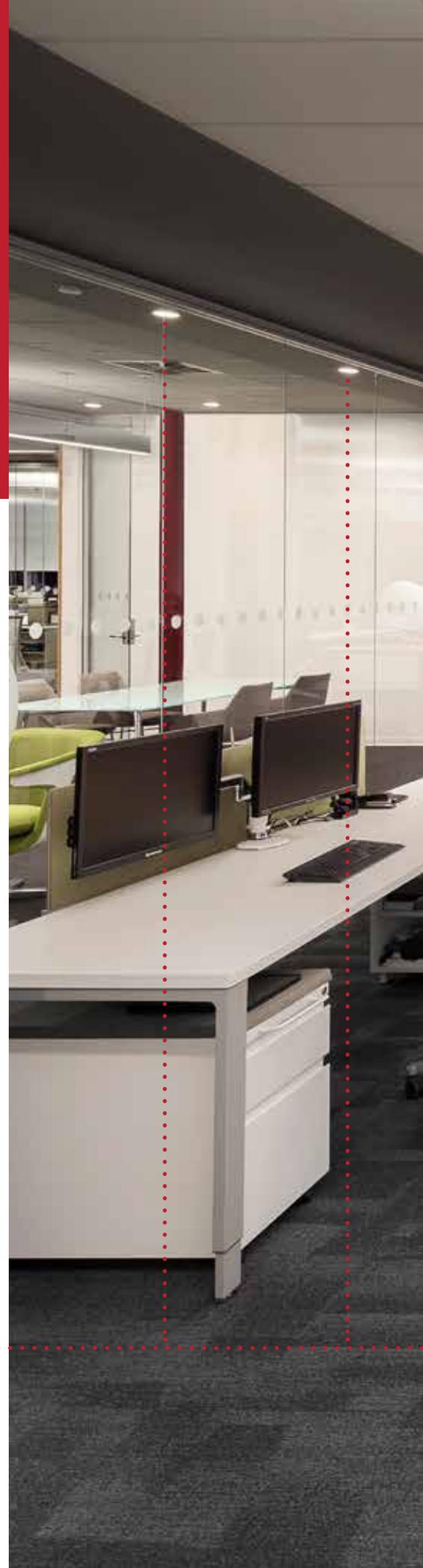
High-capacity Mini Inverters include a 4-output circuit to offer an extremely versatile solution for many applications.

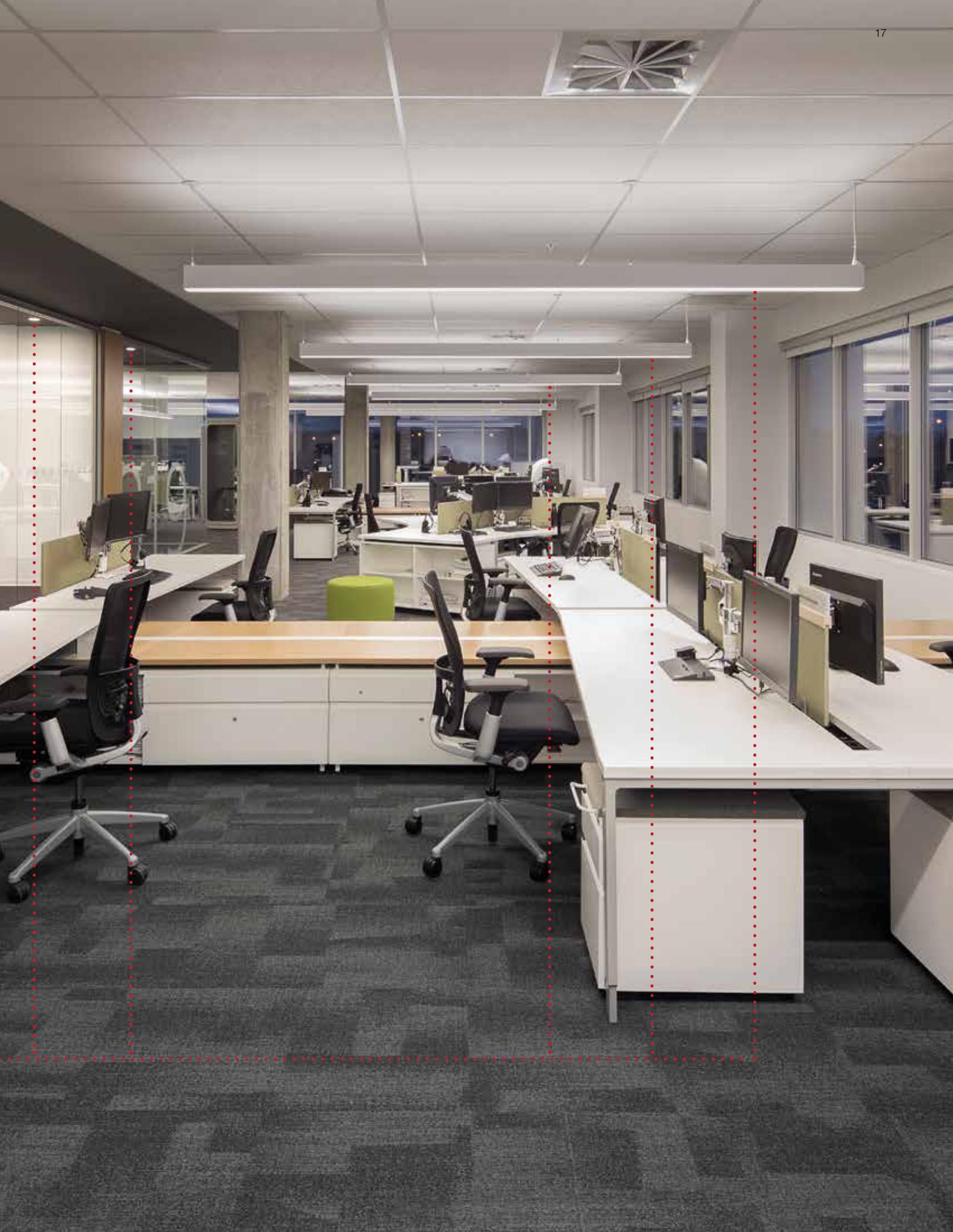
- Includes a 4-output circuit, each with a fuse breaker and 0-10V dimming control capability to easily connect multiple circuits of mixed loads
- Runs switched, normally-on, and normally-off fixtures
- Operates incandescent, LED, fluorescent and ballast combinations, including 0-10V dimmers
- Allows remote mounting up to 1,000 feet from emergency lighting fixtures; ideal for powering an entire floor in a building
- Small footprint; accommodates wall/floor mounting
- Provides pure sine wave output to meet the specific requirements for emergency lighting
- Supplies 100% lumen output with less than 1 second transfer time
- Minimizes maintenance with standard auto-diagnostics, and optional Nexus® compatibility
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements; UL924 Listed
- 3-year warranty and 7-year pro-rata battery warranty

Heavy-duty 14-gauge steel cabinet in white semi-gloss powder-coat paint finish



*Lightalarms*





# Central Power Systems

## Power ratings up to 16.7kVA for industrial loads

High-capacity central power systems provide emergency power to lighting and additional equipment.

- Accommodates many applications with multiple features and options on indoor and outdoor models
- Available in single phase and three phase models with a range of power ratings
- Provides pure sine wave output to meet the specific requirements for emergency lighting
- Resists corrosion and scratching with durable cabinets; NEMA Type 1 and Type 3R cabinets available
- Minimizes maintenance with single-point testing, self-testing, and auto-diagnostics
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements; UL924 Listed

Single cabinet design with easy-access front cabinets



*Lightarms*





# Nexus<sup>®</sup> real-time automated monitoring

Eliminate manual maintenance for testing and audit trails



## Connect Mini Inverters to Nexus® for a system that monitors itself

- Manages the status of an entire emergency lighting system from a central control unit
- Reduces testing/service time for minimal maintenance costs
- Ensures code compliance with automated testing and record-keeping
- Provides extremely high levels of system reliability and performance
- Accommodates single buildings or a group of properties with wired and wireless system options
- Protects network integrity with robust software, enhanced cyber security, a strong signal, and superior penetration through building materials; ideal for industrial applications
- Supports green building initiatives and LEED certification



# Lightalarms®

## Your partner in success

### Satisfaction at every step of the process

Our North American team works with you to make sure you have the most efficient solution that meets your specifications. Lightalarms® products are designed for durability, reliability, and ease of use.

With Lightalarms®, our solution is:

- Easy to install and maintain
- Compliant with codes, regulations and standards – certifications available
- High quality and reliable for maximum safety

### Expect fast shipping, prompt service, and ongoing support

Not only can we provide extremely short lead times, we also offer product customization at our North American manufacturing center. Our engineering team and product designers work together to create innovative new products and unique solutions that continuously help you become more efficient.

With Lightalarms® you have peace of mind that your life safety equipment will perform when you need it.











Inside Sales | Customer Support

Tel : 1-888-935-3610

Fax: 1-888-867-1566

Technical Support

Tel.: 1-888-552-6467

Fax: 1-800-316-4515

[lightalarms.com](http://lightalarms.com)

---

**by ABB**

All information contained in this brochure is subject to change due to engineer design, errors and omissions. Illustrations and diagrams within this brochure may vary from actual products.

© 2022 Lightalarms by ABB. All rights reserved.  
Printed in Canada 04/2022

