
Emergi-Lite[®]

Emergency Power for Lighting



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

Emergi-Lite[®]

Providing optimal light in an emergency
with our backup power systems

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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.



Emergi-Lite®

Your complete emergency lighting solution

Emergi-Lite® 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 Emergi-Lite® 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.

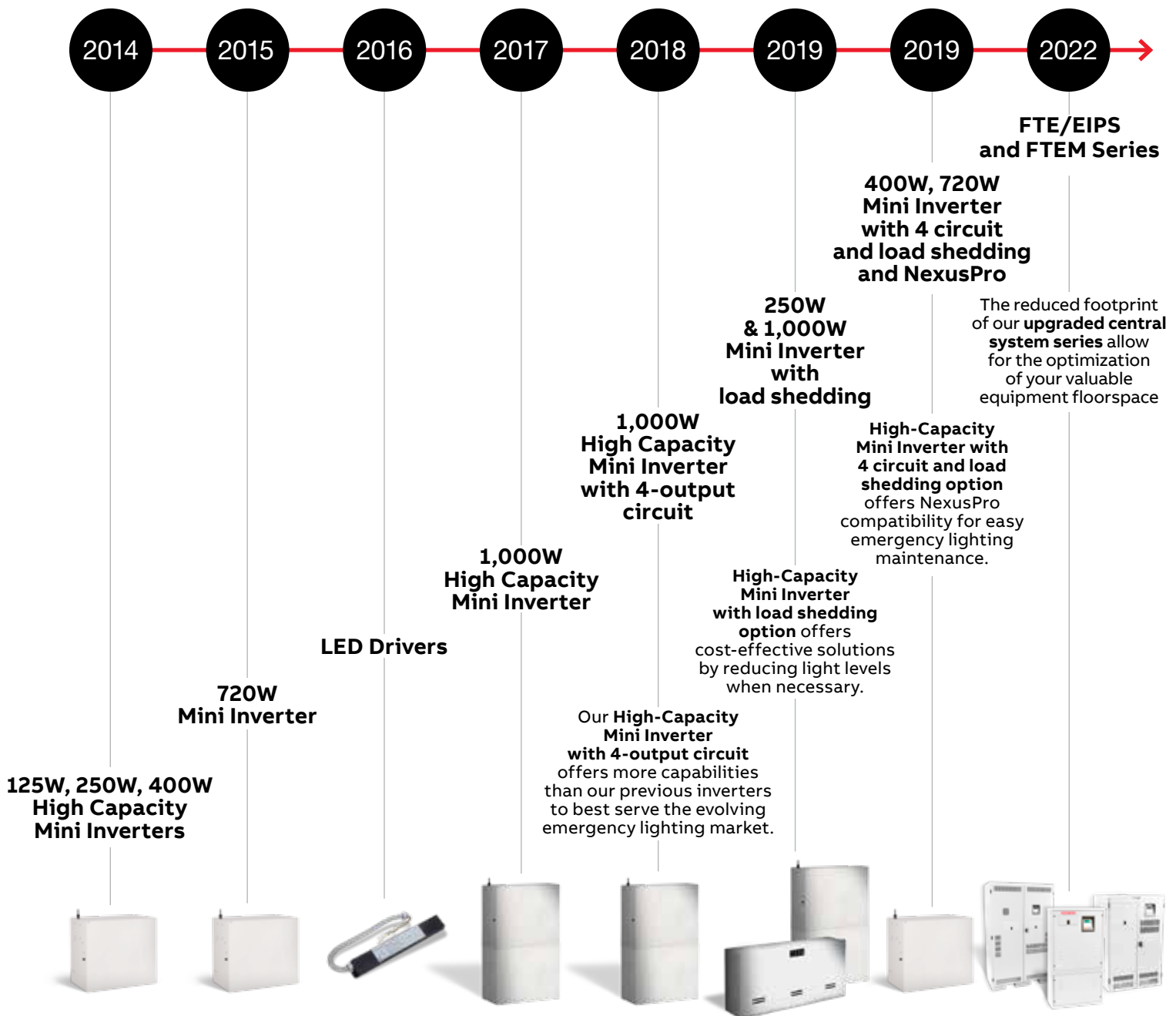
Show how different configurations affect installation and ongoing maintenance and testing.

Analyze your requirements and provide a certified technical drawing displaying how your emergency lighting plan meets code requirements.













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











Emergi-Lite®

Product matrix

	LED Drivers	Mini Inverters		
	LEDDR 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) nexus (Optional)	Non-Audible self-diagnostic (Standard) Advanced-diagnostic, audible (Optional) Manual Test Switch (Optional) nexus (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	5W, 7W, 11W, 14W, 17W	32W, 55W	125W, 250W, 400W, 720W	1000W
Voltage	120/277 VAC, 50/60Hz Input	120/277 VAC, 60Hz Input	120/277 VAC or 277/277 VAC, 60Hz Input	120/120 VAC or 277/277 VAC, 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 *4 output circuits *Service Alarm contact
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

FTEM Series 1000-2800VA	FTE/EIPS 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
2800W	16,700W	50,000W	8000W
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

The most versatile, flexible emergency power option

- 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



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

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



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.



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

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



Mini Inverters 125W, 250W, 400W & 720W

Power multiple lighting units, single output circuit

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



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

Accommodates surface mount or recessed T-bar installations (125W 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



Mini Inverter

400, 720 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.



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

Optional 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

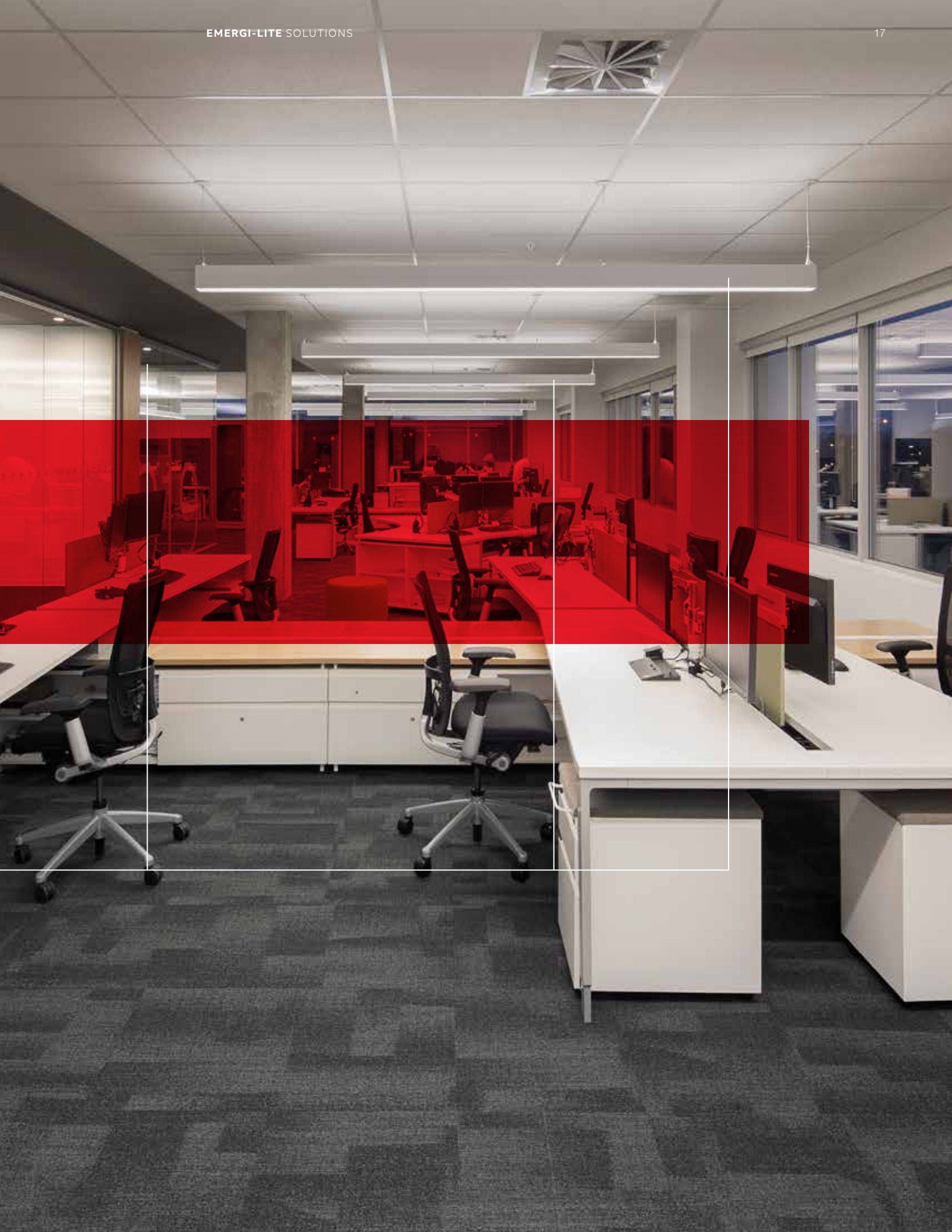
Provides pure sine wave output to meet the specific requirements for emergency lighting

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



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





Nexus[®] 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







Emergi-Lite®

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. Emergi-Lite® products are designed for durability, reliability, and ease of use.

With Emergi-Lite®, 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 Emergi-Lite® you have peace of mind that your life safety equipment will perform when you need it.





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ABB Installation Products Ltd

emergi-lite.com

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