

## Emerg-Power systems

### Features and benefits

#### Highlights

##### Performance

Emerg-Power Systems work with any type of lighting load to provide full light output for a minimum of 90 min. They are designed to support incandescent, fluorescent, HID\*, quartz re-strike, LED or halogen lamps. They will work to power into these loads at cold starts for all normally off circuits or normally on circuits \* Except IPS systems

##### True Sine Waveform

Using a solid-state, pulse width modulation (PWM) inverter the systems produce pure sinusoidal output waveform with less than 3% maximum Total Harmonic Distortion (THD) for linear loads. Microprocessor and crystal controlled.

##### Reliability

Emerg-Power Systems use third generation inverter technology. The proven solid design and double ratings of all critical components. LVD (Low Voltage Disconnect) for long power outages eliminates battery drain.

##### Batteries

Front access connections for easy installation significantly reduce the footprint, installation and maintenance time while increasing safety. Automatic restart and recharge upon restoration of utility.

##### Applications

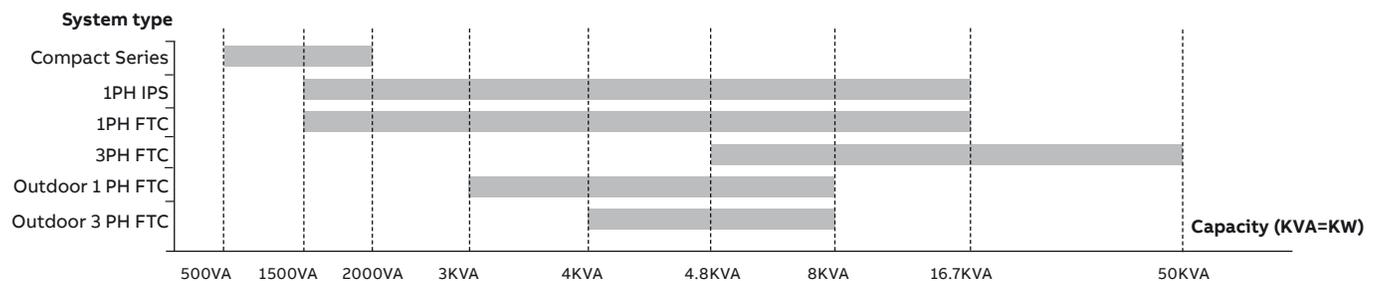
Emerg-Power Systems can be used in almost every type of building, and are well-suited for architecturally sensitive applications or areas where maintenance costs and individual testing of unit equipment becomes significant. Emerg-Power Systems are designed to work with power factor corrected as well as the most recent T5 and T5-HO electronic ballasts.

##### Options

The full range of options available, such as integrated output circuit breakers, bypass relays, dry contacts, etc., makes Emerg-Power Systems an industry leader in emergency lighting central systems.

##### Approvals

UL listed to UL 924. Meets UL 924 Listed, NFPA101, NFPA70, NFPA 110, OSHA, UBC, SBCCI. New York City approved.



## Features

### Self-diagnostic / self-testing

- Programmable monthly and annual self-testing. Proven self-diagnostic with over 120 parameters stored in separate memory logs for Test, Event and Alarm.
- Microprocessor monitoring and control.

### Low heat dissipation

- Very low heat loss technology in normal operating mode (see specifications for exact values). Convection cooling in normal mode with forced air during emergency mode.
- Battery cabinets: convection cooling only

### Maximum efficiency

- Highest efficiency in the industry, 98% at 100% load with no requirement for cooling in normal operating mode.
- Low input harmonic distortion <10%

### Versatile installation

- Modular design, easy front access freestanding cabinets, fasten together when more than one cabinet is required.
- Optional seismic kit available.
- All wiring provided is pre-cut and terminated, along with the necessary hardware and electrical fittings, for proper installation.

### Complete protection

- Input circuit breaker and fused battery circuit are standard.
- Systems offer overload capacity, short-circuit protection, current-limiting, low-battery disconnect, reverse polarity and brownout protection as standard.

### Thermal performance

- Bonded fin heat sink technology for maximum thermal performance.
- Cooling fans are energized only in inverter mode.

### Monitoring and control

- User-friendly programmable interface with LED indicators and LCD display provides full metering values, easy program and control functions and a wide range of visual and audible alarms.

## Benefits

### Compliance with NFPA101

- Self-testing meets the requirements of NFPA and UL. User programmable time of testing.
- Test results, events and alarms can be downloaded from history logs. Load monitoring. Reduced testing/service time.

### Less air-conditioning

- Reduced costs for air-conditioning required to ensure the optimum operating temperature when compared with equivalent systems that dissipate much more heat.
- Higher reliability of fans and the electronic components.

### Lower energy bills

- Low consumption of the system itself will result in lower energy bills paid over the system life time. Comparative analysis available on request.

### Easy to install

- Quick installation and connection through flexible cable entries and fast access terminal blocks.
- Reduced footprint for systems with stackable cabinets.
- Low MTTR (<15 min.) due to modular design, quick disconnect means and frontal access.

### Reduced damage risks

- Full system protection eliminates damage created by external events and increases the lifetime of the electronics and batteries. Also will provide safety during maintenance

### Increase MTBF

- Increased reliability and reduced preventative maintenance.
- No air filters needed.

### Easy maintenance

- Easier diagnostic, troubleshooting, preventative maintenance and service through the indicators and display or by using the history logs.
- Remote versions available.