

Light Support Power Inverter Systems Feature

HIGHLIGHTS

Performance

- The Light Support Power Systems works with any type of lighting load to provide full light output for minimum 90 min. It is designed to support incandescent, fluorescent, HID*, quartz re-strike or halogen lamps. It will work 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

- The product is third generation inverter technology. Proven solid design with 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.

Approvals

- UL listed to UL924. Meets UL924, NFPA101, NFPA70, NFPA 110, OSHA, UBC, SBCCI.
- N.Y. City approved.

Applications

- Light Support Power Systems can be used in almost every type of building, especially in architecturally sensitive applications or when maintenance costs and individual testing of unit equipment becomes very significant. Our systems are designed to work with power factor corrected as well as the most recent T5 and T5-HO electronic ballasts.

Options

- A full range of options such as integrated output circuit breakers, bypass relays, dry contacts, etc., makes Light Support Power Systems an industry leader in emergency lighting central systems page 147.

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 is 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.

System type



Light Support Power Inverter Benefits



BENEFITS

Compliance with NFPA101

- The self-testing meets the requirements of NFPA and UL. User programmable time of testing.
- Test results, events or 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

- The full protection of the system will eliminate damage created by external events and will increase lifetime of the electronics and the batteries. Also will provide safety during maintenance.

Increased 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.