TRYSTAR®

eLITE™ Series
MODEL ELN

Centralized Emergency Lighting Inverters

True no-break system, designed for LED, HID, incandescent, halogen, and quartz lighting applications.
PFC electronic driver / ballast loading up to 50% of the rated output.

Meets NFPA 101, NFPA 111, NEC, and local codes.

UL 924
UL / C-UL 1778

15765 Acorn Trail / Faribault, MN 55021 / 507.333.3990

TRYSTAR.com

Applications:

- Schools / Universities
- Gymnasiums / Athletic Fields
- Indoor / Outdoor Security Lighting
- Outdoor Egress
- Security Systems
- Parking Structures / Garages
- Hospitals / Clinics
- Shopping Centers / Strip Malls
- Churches
- Restaurants
- Theaters
- Hotels

Trystar engineers and manufactures the industry's highest quality **centralized emergency lighting inverters,** capitalizing on many years of expertise. We have an enviable reputation for quality, which is reflected in the design, workmanship, and performance of our products.

Features & Benefits

- Uninterrupted, regulated sinewave output for use with "normally on" lighting fixtures / exit lamps. Standby output for use with "normally off" emergency lighting fixtures.
- Programmable, timed "normally off" bus.
- Integral constant voltage transformer isolates and regulates output voltage.
- "Normally on" and "normally off" circuit breaker configurations: 550 W: Input main circuit breaker (CB).

Single main output CB standard.

Optional 1 monitored CB or a total of 3 unmonitored CB's.

1000 W and 1500 W: Input main CB.

3 output CB's standard. Optional 3 monitored CB's or a total of 6 unmonitored CB's.

- Remote communications via alarm signals or RS232.
- Integral 90 minute battery.
- System approved for 42k AIC rated source.
- Front-access design, with wall- or floor-mount options.
- NEMA 2 enclosure.
- Remote status panel, and automatic phone dialer.
- Generator-compatible.
- Optional accelerated battery charger for full load runtimes > 90

minutes.

- Optional, externally-mounted NetMinder™ communications adapter which integrates the inverter into an Ethernet TCP/IP, MODBUS TCP, or MODBUS RS485 network to remotely monitor inverter status, electrical parameters, and notify of alarm conditions. An additional BACnet communications adapter is also available.

Safety

- UL 924 Emergency Lighting Equipment.
- UL 924 Auxiliary Lighting and Power Equipment.
- UL / C-UL 1778
- NFPA 101, NFPA 111, NEC, and local codes.

Display Monitor & Diagnostics

Bright, 3-Digit LED Provides System Parameters:

- Input voltage
- Output voltage
- Percent of load
- Percent of battery capacity
- Percent of battery charged

LED Indicators Provide System Status:

- System ON (Green)
- System ON BATTERY (Yellow)
- LOW BATTERY Warning (Red)
- ALARM (Red)

Product Specifications

- Input Operating Voltage Range: +10%, – 40% typical, load-dependent, without battery usage
- Input Frequency: 60 Hz, ± 2.5%
- Output Sine Wave Voltage: Maximum 3% harmonic distortion, any single harmonic
- Power Factor: Self-correcting to >0.95
- Line Voltage Regulation: ± 3%
- Load Regulation: Typically better than ± 3%
- Isolation: Galvanic
- Standard Unit Operating Temperature: 0º C to +40º C
- Total System MTBF: 100,000 hours
- Common Mode Noise Rejection: 120 dB
- Transverse Mode Noise Rejection: 70 dB
- Efficiency 89% typical

Standards

- ANSI / IEEE C62.41 Category B3
- NFPA 101
- NFPA 111 Stored Electrical Energy Emergency and Standby Power Systems. Meets SEPSS / ECE / Level 1 and Level 2 criteria for types O, U, A, B, and 10; and Classes up to and including Class 1.5
- NFPA 70 National Electric Code
- FCC Article 15, J, Class A

ELN MODEL NUMBERS					
MODEL NUMBERS	*MODEL # SUFFIX	WATTS	INPUT - OUTPUT VAC 60 HZ	FULL LOAD BTU'S / HR	WEIGHTS (LBS.)
ELN-AAX-550W	S-0-S000-S-S	550	120 - 120	409	344
ELN-JJX-550W	S-0-S000-S-S	550	277 - 277	409	344
ELN-AAX-1kW	S-0-S000-S-S	1000	120 - 120	545	426
ELN-JJX-1kW	S-0-S000-S-S	1000	277 - 277	545	426
ELN-AAX-1.5kW	S-0-S000-S-S	1500	120 - 120	614	510
ELN-JJX-1.5kW	S-0-S000-S-S	1500	277 - 277	614	510

TRYSTAR®

15765 Acorn Trail / Faribault, MN 55021 / 507.333.3990
Document Number: 0003BR1225 / December, 2025 /

TRYSTAR.com