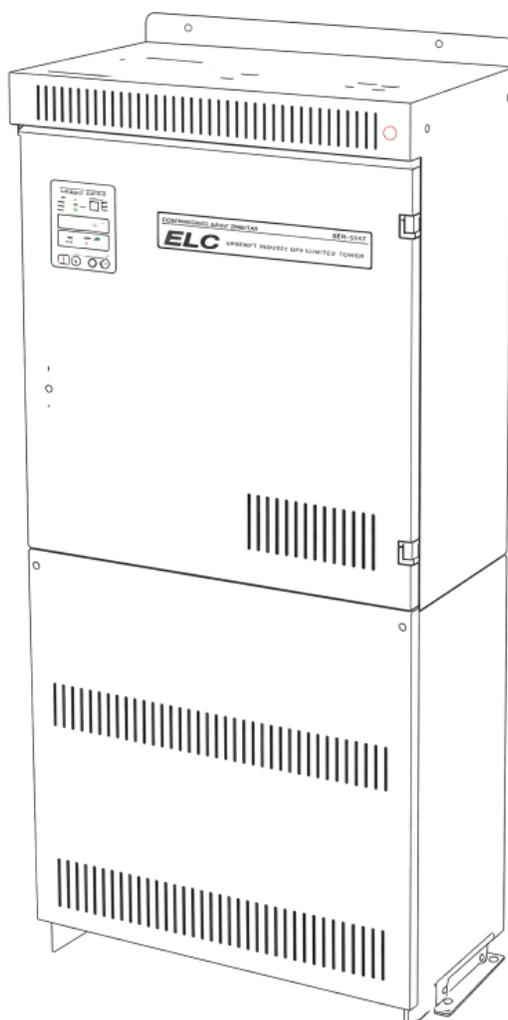


**600W - 2KW
COMPACT
EMERGENCY
LIGHTING INVERTER
UL924 LISTED**



INTRODUCTION

Compact Emergency Lighting Inverter

UltraLITE Series Model ELC

The UltraLITE Series Model ELC is a compact, centralized emergency lighting inverter engineered for mission-critical egress lighting applications. Designed with true online double-conversion technology, the ELC delivers conditioned, regulated sinewave power to both “normally on” and “normally off” emergency lighting loads. The system ensures 100% lumen output during outages, extends fixture life, and provides high reliability through DSP-controlled operation and static bypass protection.

Available in 600W, 1kW, 1.5kW, and 2kW configurations, the UltraLITE ELC offers a compact footprint with front-access servicing, a NEMA 2 enclosure, smart battery charging, and multiple distribution and communication options to meet a wide range of emergency lighting requirements.

Key Features

Performance & Power Quality True online, double-conversion topology for conditioned and regulated power. Continuous, uninterrupted sinewave output for “normally on” loads; fully LED and HID compatible. Standby output for “normally off” emergency lights. Standby output for “normally off” emergency lights. Tight voltage regulation maintains 100% egress lumen output during all modes. Extended brownout protection and power conditioning extend ballast/driver and lamp life.

High Inrush Lighting Support LED inrush handling up to 1200% peak overload (no static bypass required). Programmable soft-start for normally off loads reduces inrush from incandescent, halogen, quartz, HID, and LED fixtures.

Reliability & Safety High-speed automatic static bypass and manual bypass switch. Advanced DSP-based control for accuracy and stable operation. UL 924 Emergency Lighting Equipment and UL 924 Auxiliary Lighting & Power Equipment Listed. Complies with NFPA 101, NFPA 111, NEC, CSA C22.2, and FCC Class A.

Compact, Install-Friendly Design Standard NEMA 2 drip-proof enclosure. Full front access for installation and service.

Smart Battery System 90-minute integral, maintenance-free batteries (UL 924). Optional 15–240 minute runtimes depending on model. 4-stage temperature-compensated charging for enhanced battery life.

Control, Monitoring & Testing Local monitor includes self-test diagnostics, battery testing, alarms, and system indicators. Automatic NFPA-compliant periodic and annual battery tests with logs. USB, RS-232, and optional Ethernet/MODBUS/BACnet communications.

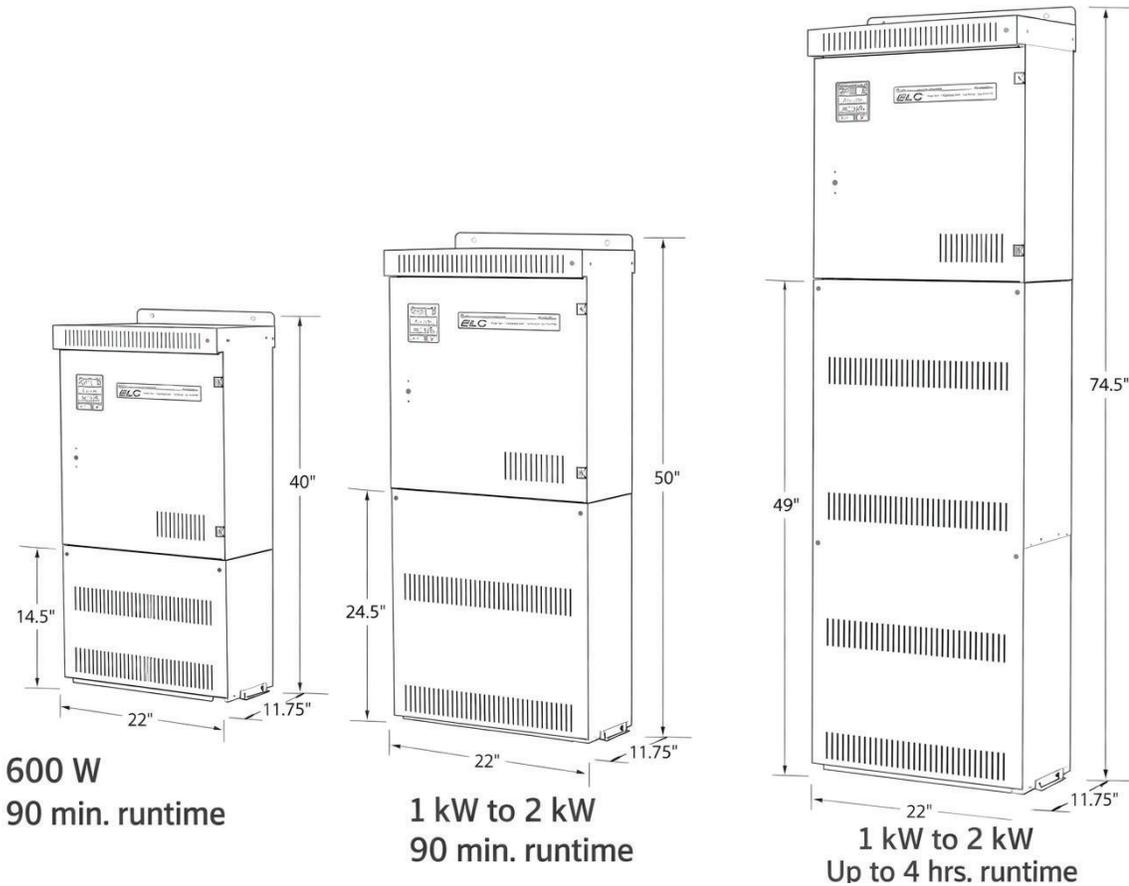
SPECIFICATIONS

Electrical		
Input Voltage Range		+12%, –30% typical (load-dependent) +12%, –15% at full load
Frequency		60 Hz ± 2.5%
Input Current Harmonic Distortion		<5% THD
Sinewave Voltage		<3% total harmonic distortion (any single harmonic)
Input Power factor		Self-correcting to >0.95
Overload Rating		125% for 30 cycles; 150% for 4 cycles (AC or battery)
LED Inrush Capability		1200% peak (no static bypass required)

SPECIFICATIONS (CONT.)

Battery	
Type	VRLA Sealed Lead-Acid, 10-year design life.
Standard Runtime	90 minutes at rated output
Optional runtimes	15-240 minutes (varies by model)
Charge Time	Minumum 24 hours for full capacity
Environmental	
Operating Temperature	UL 924 Emergency Lighting: 20–35°C UL 924 Auxiliary: 0–40°C, C-UL: 10–40°C
Storage	Batteries require 24-hour charge every 6 months
Enclosure	NEMA 2 standard, indoor use only
Mechanical	
Access	Front-access for service and wiring
Cabinet Sizes	Separate outlines for 600W, 1kW–2kW, and multi-cabinet battery options (see pg4 or refer to manual)
Options	
Timed Normally Off Bus “PLUS”	Adjustable transfer-on delay (0–10 sec) Adjustable return-off delay (0–15 min) Soft-start control (16–192 cycles; instant-on selectable) Supports high inrush normally-off loads
Output Distribution	Up to 12 non-monitored CBs Up to 6 monitored CBs Configurable for Normally On and/or Normally Off circuits
Remote Annunciator	Remote LED/alarm panel Audible silence button Battery test indication
Remote Communications Options	NetMinder CS141 family for SNMP, MODBUS TCP/RS485, web dashboard, alarms, logs
	ANSI / IEEE C62.41 Category B3 surge protection
	FCC Class A EMI compliance RS-232, remote alarm signals
	NetMinder CS141 adapters for Ethernet, SNMP, Modbus TCP/RS-485, email alerts, remote monitoring Remote annunciator panel supports system status & alarms (optional)

DIMENSIONAL DRAWINGS



Ordering Information

Contact Trystar

UltraLITE Series Model ELC

