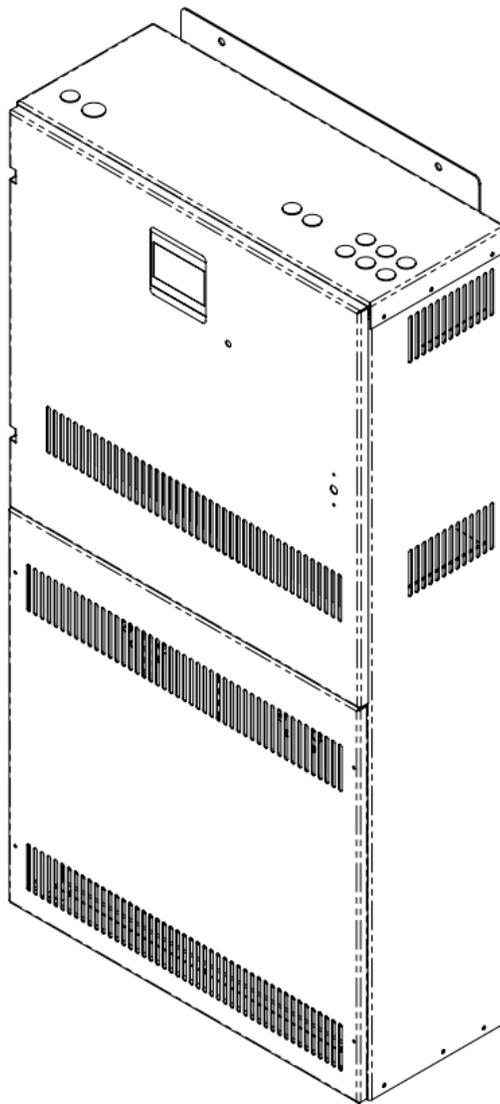


525W - 2.2KW
HIGH EFFICIENCY
FAST - TRANSFER
EMERGENCY
LIGHTING INVERTER



INTRODUCTION

Emergency Lighting Inverter

FastLITE Model FST

Our FastLITE Model FST is a high efficiency, fast-transfer emergency lighting inverter delivering ≤ 2 ms transfer time to and from battery. It is offered in wall-mount and floor-mount models. The Model FST is designed for LED fixtures / drivers, as well as all other emergency lighting loads. All models are provided with a “normally on” and a “normally off / switched” output.

Key Features

Efficiency

With greater energy savings in mind, we designed the Model FST with an operating efficiency of up to 98.8%. This was accomplished without compromising the critical features, diagnostics, and monitoring options.

Input LED Inrush Compatible

LED fixtures are frequently designated for emergency egress lighting. With this in mind, we’ve designed the Model FST with a peak overload capability of 1500% to accommodate the inrush current from LED fixtures / drivers while the inverter is fed from the AC power source, or even while in battery mode!

Full Compliance with NFPA 101

The Model FST meets the NFPA 101 definition of a computer-based, selftesting / self-diagnostic emergency lighting system with data-logging. Both periodic and annual tests are performed automatically, and the results are logged with a date and time stamp. Both alarm and test logs provide a history of events, and the ability to generate an NFPA-compliant report.

Weekly Self-Diagnostic

In addition to the periodic and annual testing per NFPA 101, the Model FST performs a weekly inverter self-diagnostic without needing to transfer to battery mode. If this test were to fail, the unit would alarm, general alarm contacts would switch state, and the fault would be logged with a date and time stamp.

SPECIFICATIONS

Electrical

Ratings (kVA/kW)	.525, .750, 1.1, 1.44, 1.5, 1.7, 2, 2.2 at 1.0 (unity) power factor
Input	
Nominal Voltage	120V, 277V or 347V, 1 Phase, 60Hz Consult factory for 50Hz models
Voltage Range	Programmable $\pm 10\%$ or $+10\%$, -15% (without battery usage)
Operating Frequency	60 Hz $\pm 5\%$ from nominal (Consult factory for 50Hz models)
System AIC Rating	5k AIC standard; 65k AIC optional
Output	
Nominal Voltage	120V, 277V or 347V
Voltage Regulation	$\pm 5\%$ from nominal during full battery discharge, no load to full rated load
Transfer Time	≤ 2 msec to and from battery, under any loading conditions
Frequency	60 Hz $\pm 0.5\%$ while in battery operation mode (Consult factory for 50Hz models)
Overload	Up to: 110% for 2 minutes, 125% for 30 seconds, 150% for 10 seconds, 400% for 4 cycles while in battery operation mode
LED Inrush Rating	Peak overload capability of 1500% when fed from AC power or on battery, to accommodate inrush current from LED fixtures / drivers
voltage Distortion	$\leq 3\%$ THD, while on battery with a linear load
Efficiency	Up to 98.8%

SPECIFICATIONS (CONT.)

Battery	
Type	Valve-regulated, sealed lead acid, maintenance-free
Testing	NFPA 101 compliant automatic self-testing, with a manual push-to-test feature
Runtimes	90 minutes and optional runtimes available
Nominal Voltage	96 VDC or 108 VDC, dependent on output wattage rating and runtime
Charger	3-stage, 3.5 amps, temperature compensated
Recharge Time	12 hour recharge (runtimes up to 90 min), UL 924 and CSA compliant
Certifications	
Safety	UL 924 Listed - Emergency Lighting Equipment C-UL Listed to CSA C22.2 No. 141-15 UL 924 Listed - Auxiliary Lighting and Power Equipment NFPA 101, 111, NEC, IBC
EMI Compliance	FCC Class A limits, 47 C.F.R. Part 15, Subparts A, B
Quality	ISO 9001:2015
Environmental	
Operating Temperature	20°C to 30°C for UL 924 and C-UL Listed models - Optimum battery performance and life at 25°C
Storage Temperature	Inverter at -20°C to 50°C, battery storage at 25°C for 6 months before charging is required. For each 9°C rise, reduce storage time by half
Relative Humidity	0 to 95% non-condensing
Audible Noise	45 dB typical
Elevation	6600 feet (2000 meters) without derating

DIMENSIONAL DRAWINGS

(Dimensions in Inches)

