



Job Name: _____

Type: _____

Part #: _____

Notes: _____

FORTRESS 3



SPECIFICATIONS

The LSL Fortress 3 maintains efficient AC Emergency Power to operate all emergency lighting fixtures at "full-light" output, providing superior dependability and security to commercial/industrial environments in an outdoor environment.

POWER RATING

- 3 KW - 125 KW (or 3,000 Watts - 125,000 Watts) three phase output unit uses the latest DSP/PWM technology to provide the most advanced performance and reliability features

INPUT

- 208Y/120, 480Y/277, 208 or 480VAC input 60Hz

OUTPUT

- 208Y/120 or 480Y/277VAC True "on-line" design is $\geq 92\%$ efficient at 100% linear load

BATTERIES

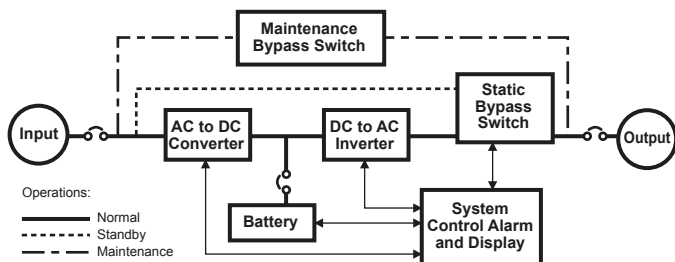
- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year prorated warranty
- Smart Battery Monitoring System is **TEMPERATURE COMPENSATED** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

LAMPS AND LOADS

- Emergency power provides **FULL LIGHT OUTPUT** from all lamps and fixtures for the entire runtime
- Operates fluorescent, compact fluorescent, incandescent, quartz, H.I.D., LED and other lamp types
- Standard or electronic ballasts, dimming devices or panels, sensors and most control equipment
- Standard or LED Exits and other safety equipment

CODES

- UL 924, UL 1778 meets NFPA 101, NFPA 70, NEC and OSHA standards
- Cities of Chicago and New York approved
- Complies with the Buy American Act



3 KW - 125 KW

Three Phase

Uninterrupted
Emergency
Lighting and
Power
Systems



PROTECTION

- Provides overload, surge and undercurrent protection using Our technology and *Watchdog Software* to protect system performance and reliability
- Surge protection against load surges as defined in ANSI/IEEE C62.45 category A and B

DIAGNOSTICS AND MAINTENANCE

- Our technology and *Watchdog Software* provides complete self diagnostic capabilities and LED Monitoring
- Informative advanced Display and Alarms keep you in control of your emergency lighting environment 24/7
- Automatically performs periodic self-tests ensuring a safely lighted environment *prior* to an emergency
- Single point of testing instead of multiple testing points with battery packs

NEMA 3R CABINET

- Modular design enables flexible installation
- Forced air cooling for maximum reliability
- Systems up to 10 KW are self contained; larger systems require external battery cabinet(s)

INSTALLATION

- Modular design and small footprint allow easy installation in an outdoor environment
- Phone assisted factory start-up standard for all systems
- Extended warranty available

SPECIAL APPLICATIONS

- LSL offers numerous UL924 optional devices to meet unusual or difficult application parameters
- ECM - Environmental Circuit Module allows fixtures and lamps on the emergency circuit(s) to be operated by normal switching and/ or dimming devices in NON-emergency conditions Dimming Panel
- Interface allows use with emergency lights controlled by common dimmer panel

WARRANTY

- 1-Year full warranty on system electronics
- Battery warranty 1-year with 9-years pro-rated
- System 1-year on-site warranty labor with LSL phone assisted start-up
- 5-Year powertrain warranty
- Maintenance contracts available



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Fortress Outdoor 3	Power Rating	UPS			Battery				Weight (combined)	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals
		Cabinet Dimensions			Cabinet Dimensions							Input	Output		
LSFT3 <small>(Consult factory for other capabilities)</small>	KVA/KW	W	H	D	No.	W	H	D	(lbs)	BTU's	Sealed, Maintenance free (AGM) lead calcium	208Y/120VAC, 480Y/277VAC, 208 or 480VAC <small>(Consult factory for others)</small>	Input and output circuit breakers standard	UL924 UL1778 NFPA 101 NFPA 70 NEC	
	3	41"	72"	32"	not required				1480	816					
	4.5	41"	72"	32"	not required				1600	1224					
	6	41"	72"	32"	not required				1850	1632					
	8	41"	72"	32"	not required				2200	2176					
	10	41"	72"	32"	not required				2750	2720					
	12	41"	72"	32"	1	41"	72"	32"	3200	3264					
	16	41"	72"	32"	1	41"	72"	32"	3450	4352					
	20	41"	72"	32"	1	41"	72"	32"	4300	5440					
	24	41"	72"	32"	2	41"	72"	32"	5050	6528					
	30	41"	72"	32"	2	41"	72"	32"	5900	8160					
	40	41"	72"	32"	3	41"	72"	32"	6750	10880					
	60	Consult Factory								16320					
	80	Consult Factory								21760					
	100	Consult Factory								27200					
125	Consult Factory								34000						

We sincerely hope you never experience a real emergency, but if you do, you deserve the **security, safety** and **peace of mind** that the Fortress 3 from LSL ensures.

ORDERING INFORMATION

Choose the bold face catalog nomenclature that best suites your needs.

Write them on the appropriate line. Order accessories as separate catalog number.

Example:

LSFT3 - 12.0 - 208Y/120 208Y/120- EMB OCB/120/3/20/1 - 180

Description of example:

(12.0 KW, 208Y/120 Voltage In, 208Y/120 Voltage Out, External Maintenance Bypass Switch, 3 Output 120 Voltage Circuit Breakers at 20amps, 2 pole, 180 minute run time)

LSFT3	POWER RATING	VOLTAGE ¹	OPTIONS	TIME ³
FAMILY	KW	Input/Output	ECM120 - 120V Environmental control module ² / qty	Minutes
	3.0	208Y/120 - 208Y/120	ECM277 - 277V Environmental control module ² / qty	5
	4.5	480Y/277 - 480Y/277	NOF - Normally OFF output circuit/voltage / qty/pole	10
	6.0	208 - 208Y/120	NOH - Normally OFF "Hold ON"/voltage/qty/pole	15
	8.0	208 - 480Y/277	OCB - Output circuit breakers / voltage / quantity/amps/pole	20
	10.0	480 - 208Y/120	EPO - Emergency power off	25
	12.0	480 - 480Y/277	RSSP - Remote Indicator Panel	30
	16.0		SNMP - SNMP Card	45
	20.0		FC - Form C Contacts	60
	24.0		STU3 - Onsite start-up	90 (Standard)
	30.0		IDB - Internal dimmer bypass	120
	40.0		EMB - External maintenance bypass switch	180
	60.0		HE - Heat exchanger	240
	80.0		HTR - Heater	
	100.0		EW - Extended warranty	
	125.0			

NOTES:

1-Consult factory for other voltage requirements. Special voltages may effect the weight, size and number or cabinets.

2-One ECM is used per switching device or circuit.

3-Consult factory for other run times.

Specifications subject to change without notice.