

Job Name:		
Type:		
Part #:		
Notes:		
		·



## **SPECIFICATIONS**

The LSL Fortress Harsh 1 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**

 0.075 KW - 21 KW (or 75 Watts - 21,000 Watts) single phase output unit uses the latest DSP/PWM technology to provide the most advanced performance and reliability features

#### **INPUT**

• 120V, 120/120V, 240V, 277V or 480V input 60Hz

#### OUTPUT

• 120V, 208V, 240V, 277V, 480V, 120/240 or 120/277VAC True "on-line" design is ≥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**

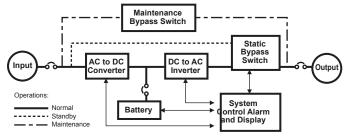
- Emergency power provides **FULL LIGHT OUTPUT** from all lamps and fixtures for the entire runtime
- · Operates fluorescent, compact fluorescent, incandescent,

guartz, 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**

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



## 0.075 KW - 21 KW

# Single Phase

Uninterrupted Emergency Lighting and Power Systems



### **PROTECTION**

- Provides overload, surge and undercurrent protection using technology and The 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 The 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 4X or 12 CABINET**

- · Modular design enables flexible installation
- · Forced air cooling for maximum reliability
- Systems up to 12 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 24/7 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
- MFG phone assisted start-up
- 5-Year powertrain warranty
- · Maintenance contracts available

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Fortress Harsh 1	Power Rating	UPS		Battery		Weight	British Thermal Unit	Battery	Voltage (VAC)		Output Protection	Safety Approvals		
		Cabinet Dimensions		Cabinet Dimensions		(com- bined)		Type						
	KVA/KW	W	Н	D	W	Н	D	(lbs)	BTU's		Input	Output		
	0.075	58"	72.8"	36"	not required		900	20.4	Sealed, Maintance free (AGM) lead calcium	Прис	Input Output	Input and output circuit breakers	UL924 UL1778 NFPA 101 NFPA 70 NEC	
	0.1	58"	72.8"	36"	not required		910	27.2		0-1				
	0.125	58"	72.8"	36"	not required		920	34			Select      Select        120,      120,        208,      277,        240,      480,        277      120/240        or      or			
	0.2	58"	72.8"	36"	not required		930	54.4		Select				
	0.3	58"	72.8"	36"	not required		940	81.6		120,				
	0.35	58"	72.8"	36"	not required		950	95.2		208,				
	0.525	58"	72.8"	36"	not required		1140	142.8		240.				
	0.7	58"	72.8"	36"	not required		1170	190.4		1 '				
LSFTH1	0.875	58"	72.8"	36"	not required		1190	238		or				
	1.05	58"	72.8"	36"	not required		1220	285.6		480	120/277			
(Consult	1.4	58"	72.8"	36"	not required		1350	380.8		400	460  120/2//			
factory for others)	2.0	58"	72.8"	36"	not required		1410	544	]					
	2.4	58"	72.8"	36"	not required		1460	652.8						
	2.6	58"	72.8"	36"	6" not required		1620	707.2	]					
	3.0	58"	72.8"	36"			red	1730	816					
	3.4	58"	72.8"	36"			red	1780	924.8					
	3.8	58"	72.8"	36"	not required		1830	1033.6						
	4.2	58"	72.8"	36"	not required		1980	1142.4						
	4.7	58"	72.8"	36"	not required		2350	1278.4	]					
	5.25	58"	72.8"	36"	not required		2350	1428						
	7.0	58"	72.8"	36"	not required		2600	1904						
	8.0	58"	72.8"	36"	not required		2600	2176	]					
	10.0	58"	72.8"	36"	not required		3050	2720	]					
	12.0	58"	72.8"	36"	not required		3050	3264						
	14.0	58"	72.8"	36"	58"	72.8"		3700	3808	]				
	18.0	58"	72.8"	36"	58"	72.8"		4900	4896	]				
	21.0	58"	72.8"	36"	58"	72.8"	36"	5300	5712					

## ORDERING INFORMATION

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

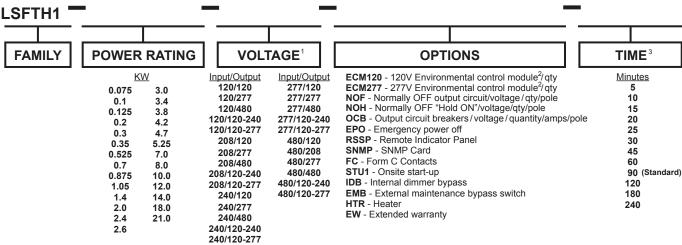
Write them on the appropriate line. Order accessories as separate catalog number.

Example:

LSFTH1 - 8.0 - 120/277 - ECM277/3 OCB/277/3/20/1 - 180

Description of example:

(8.0 KW, 120 Voltage In, 277 Voltage Out, 3 277V Environmental Control Modules, 3 Output 277 Voltage Circuit Breakers at 20amps, 2 pole, 180 minute run time)



### NOTES:

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<sup>1-</sup>Consult factory for other voltage requirements.

Special voltages may effect the weight, size and number or cabinets.

<sup>2-</sup>One ECM is used per switching device or circuit. 3-Consult factory for other run times.