

JOB NAME:	
TYPE:	
PART #:	
NOTES:	



FORTRESS HARSH 1

0.075 - 21KW SINGLE PHASE UNINTERRUPTED EMERGENCY LIGHTING & POWER SYSTEM

The Emergensee Fortress Harsh 1 maintains efficient AC Emergency Power to operate all emergency lighting fixtures at "full-light" output after the transfer is complete, providing superior dependability and security to commercial and industrial environments in a small footprint.

POWER RATING

 0.075KW – 21KW (or 75W – 21,000W) single phase output unit uses the latest technology to provide the most advanced performance and reliability features

INPUT

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

OUTPUT

• 120, 208, 240, 277, 480, 120/240, 120/277 V AC
True "on-line" design is ≥92% efficient at 100% linear load

BATTERIES

- · Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year pro-rated warranty
- Smart Battery Monitoring System is Temperature Compensated maintaining maximum runtime and battery life
- Microprocessor controlled recharge and overcharge protection standard

LAMPS & 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

- UL924, UL1778, NFPA101, NFPA70, NEC & OSHA standards
- Cities of Chicago and New York approved
- Complies with the Buy American Act

ı	Maintenance Bypass Switch	i
		Static Bypass Switch Output
Standby Maintenance		ntrol Alarm d Display

PROTECTION

- Provides overload, surge and undercurrent protection using 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 & MAINTENANCE

- Our technology and Watchdog Software provides complete selfdiagnostic 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 12KW are self-contained; large systems require external battery cabinet(s)

INSTALLATION

- Modular design and small footprint allow easy installation in electrical closets or other convenient locations
- · Phone assisted factory start-up standard for all systems
- · Extended warranty available

SPECIAL APPLICATIONS

- Offers numerous UL924 optional devices to meet unusual or difficult application parameters
- ECM Envorinmental 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



JOB NAME:	
TYPE:	
PART #:	
NOTES:	

FORTRESS HARSH 1	POWER RATING	UPS CABINET DIMENSIONS			WEIGHT	BRITISH THERMAL UNITS	BATTERY TYPE	VOLTAGE (VAC)		OUTPUT PROTECTION	SAFETY APPROVALS
SEEFTH1	KVA/KW 0.35 0.525 0.7 0.875 1.05 1.4 2.0 2.4 2.6 3.0 3.4 3.8 4.2 4.7 5.25 7.0 8.0 10.0 12.0 14.0 18.0 21.0	W 41" 41" 41" 41" 41" 41" 41" 41" 41" 41"	H 52" 52" 52" 52" 52" 52" 52" 52" 52" 52"	D 36" 36" 36" 36" 36" 36" 36" 36" 36" 36"	(LBS) 950 1140 1170 1190 1220 1350 1410 1460 1620 1730 1780 1830 1980 2350 2600 2600 3050 3050 3700 4900 5300	BTUs 95.2 142.8 190.4 238 285.6 380.8 544 652.8 707.2 816 924.8 1033.6 1142.4 1278.4 1428 1904 2176 2720 3264 3808 4896 5712	SEALED, MAINTENANCE FREE (AGM) LEAD CALCIUM	INPUT (select) 120 208 240 277 or 408	OUTPUT (select) 120 277 480 120/240 or 120/277	INPUT & OUTPUT CIRCUIT BREAKERS STANDARD	UL924 UL1778 NFPA101 NFPA70 NEC

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

SEEFTH1-8.0-120/277-ECM277/3 OCB/277/3/20/1-180

Description of Example:

(8.0KW, 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)

SEEFTH1 -				-	-	· -	•
		П					
FAMILY	POWER RATING			VOLTAGE ¹		OPTIONS	TIME ³
	0.075 0.1 0.125	1.05 1.4 2.0	4.7 5.25 7.0	120/120 120/277 120/480	240/120-240 240/120-277 277/120	ECM120 – 120V Environmental Control Module ² /qty ECM277 – 277V Environmental Control Module ² /qty NOF – Normally "OFF" output circuit/voltage/qty/pole NOH – Normally OFF "HOLD ON"/voltage/qty/pole	5 10 15
	0.2 0.3 0.35	2.4 2.6 3.0	8.0 10.0 12.0	120/120-240 120/120-277 208/120	277/277 277/480 277/120-240	OCB – Output Circuit Breakers/voltage/qty/amps/pole EPO – Emergency Power Off RSSP – Remote Indicator Panel	20 25 30
	0.525 0.7 0.875	3.4 3.8 4.2	14.0 18.0 21.0	208/277 208/480 208/120-240	277/120-277 480/120 480/277	SNMP – SNMP Card FC – Form "C" Contacts STU1 – Onsite Start-up	45 60 90 (Standard)
1 Consult factory for other voltage requirements Special voltages may effect the weight, size and number of cabinets 2 One ECM is used per switching device or circuit 3 Consult factory for other run times			208/120-277 240/120 240/277 240/480 240/120-240 240/120-277	480/480 480/120-240 480/120-277	IDB – Internal Dimmer Bypass EMB – External Maintenance Bypass Switch HTR – Heater EW – Extended Warranty	120 180 240	