

FORTRESS 1 HARSH



SPECIFICATIONS

• The 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

DIAGNOSTICS AND MAINTENANCE

- DSP/PWM technology and DSPM 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



PROTECTION

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

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
- DSP/PWM Smart Battery Monitoring System is TEMPERA-TURE COMPENSATED maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

0.075 KW - 21 KW

Single Phase

Uninterrupted

Emergency

Lighting and

Systems



- 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

WARRANTY

• 1-Year full warranty on system electronics

LAMPS AND LOADS

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

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

INSTALLATION

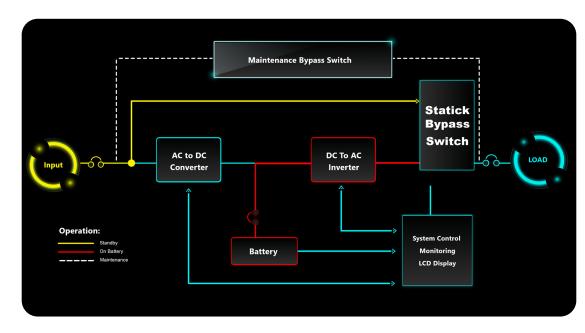
- Modular design and small footprint allow easy installation in electrical closet or other convenient locations
- Phone assisted factory start-up standard for all systems
- Extended warranty available

SPECIAL APPLICATIONS

- DSPM 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

NEMA 4 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)





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Fortress Harsh 1	Power Ratings	UPS			Battery Cabinet Dimentions			Weight	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals
		Cabinet Dimentions						(Combined)						
FTH1 (Consult factory for others)	KVA/Kw	W	Н	D	W	Н	D	(lbs)	BTU s		Input	Output		
	0.35	(41+6)"	(48+4)"	36"		not required		950	95.2					UL924 UL1778 NFPA 101 NFPA 70 NEC
	0.525	(41+6)"	(48+4)"	36"	not required			1140	142.8	-	<u>Select</u>	Select		
	0.7	(41+6)"	(48+4)"	36"	not required			1170	190.4					
	0.875	(41+6)"	(48+4)"	36"	not required			1190	238					
	1.05	(41+6)"	(48+4)"	36"				1220	285.6					
	1.4	(41+6)"	(48+4)"	36"				1350	380.8					
	2	(41+6)"	(48+4)"	36"				1410	544					
	2.4	(41+6)"	(48+4)"	36"				1460	652.8					
	2.6	(41+6)"	(48+4)"	36"				1620	707.2	Sealed,	120,	120,	Input and	
	3	(41+6)"	(48+4)"	36"				1730	816	Maintance	208,	08, 277, 40, 480, 77 120/240 or or	output circuit breakers standard	
	3.4	(41+6)"	(48+4)"	36"				1780	924.8	free (AGM)	240,			
	3.8	(41+6)"	(48+4)"	36"	not required			1830	1033.6	leau 2	277			
	4.2	(41+6)"	(48+4)"	36"	not required			1980	1142.4	calcium				
	4.7	(41+6)"	(48+4)"	36"	not required			2350	1278.4		480			
	5.25	(41+6)"	(48+4)"	36"	not required			2350	1428		460			
	7	(41+6)"	(72+4)"	36"	not required			2600	1904					
	8	(41+6)"	(72+4)"	36"	not required			2600	2176					
	10	(41+6)"	(72+4)"	36"	not required			3050	2720					
	12	(41+6)"	(72+4)"	36"	not required			3050	3264					
	14	(41+6)"	(72+4)"	36"	(41+6)"	(72+4)"	36"	3700	3808		1		i l	
	18	(41+6)"	(72+4)"	36"	(41+6)"	(72+4)"	36"	4900	4896					1
	21	(41+6)"	(72+4)"	36"	(41+6)" (72+4)" 36"			5300	5712					

ORDERING INFORMATION

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

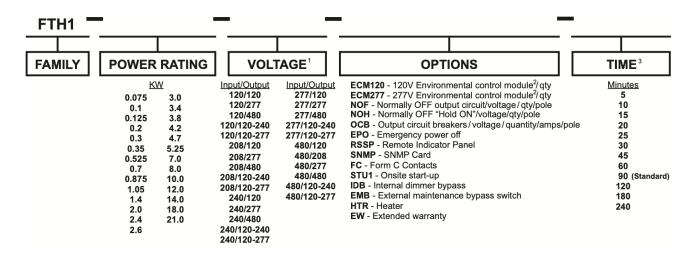
Write them on the appropriate line. Order accessories as separate catalog number.

Example:

FTH1 - 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:

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.



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