

# 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

#### **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**

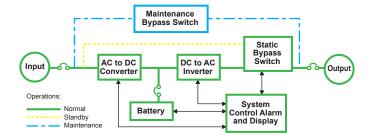
- · Sealed, maintenance-free, lead calcium (AGM) batteries
- · 10-Year prorated warranty
- DSP/PWM Smart Battery Monitoring System is TEMPERATURE COMPENSATED maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

# **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**

- 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



Catalog Number											
Project	Notes										
Signature	Date										

0.075 KW - 21 KW

# Single Phase

Uninterrupted Emergency Lighting and Power Systems



#### **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

#### **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

# **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)

### **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**

- 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

#### **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 DSPM phone assisted start-up
- · 5-Year powertrain warranty
- · Maintenance contracts available

# FORTRESS 1 HARSH



Fortress Harsh 1	Power Rating	UPS Cabinet Dimensions			Battery Cabinet Dimensions		Weight (com- bined)	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals	
FTH1 (Consult factory for others)	KVA/KW	W	Н	D	W	Н	D	(lbs)	BTU's		Input	Output		
	0.35	41"	52"	32"	not required		950	95.2	Sealed, Maintance free (AGM) lead calcium	mpat	Output	Input and output circuit breakers	UL924 UL1778 NFPA 101 NFPA 70 NEC	
	0.525	41"	52"	32"	not required		1140	142.8						
	0.7	41"	52"	32"	not required		1170	190.4		<u>Select</u>	Select 120, 277, 480, 120/240 or 120/277			
	0.875	41"	52"	32"	not required		1190	238						
	1.05	41"	52"	32"	not required		1220	285.6		120,				
	1.4	41"	52"	32"	not required		1350	380.8		208,				
	2.0	41"	52"	32"	not required		1410	544		277 12 or				
	2.4	41"	52"	32"	not required		1460	652.8						
	2.6	41"	52"	32"	not required		1620	707.2						
	3.0	41"	52"	32"	not required		1730	816						
	3.4	41"	52"	32"	not required		1780	924.8						
	3.8	41"	52"	32"	not required		1830	1033.6						
	4.2	41"	52"	32"	not required		1980	1142.4						
	4.7	41"	73"	32"	not required		2350	1278.4						
	5.25	41"	73"	32"	not required		2350	1428						
	7.0	41"	73"	32"	not required		2600	1904						
	8.0	41"	73"	32"	not required		2600	2176						
	10.0	41"	73"	32"	not required		3050	2720						
	12.0	41"	73"	32"	not required			3050		3264				
	14.0	41"	73"	32"	41"	52"	32"	3700	3808					
	18.0	41"	73"	32"	41"	52"	32"	4900	4896					
	21.0	41"	73"	32"	41"	41" 52" 32"		5300	5712					

# ORDERING INFORMATION

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

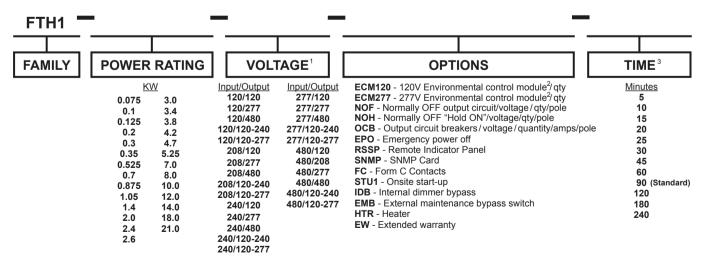
Write them on the appropriate line. Order accessories as separate catalog number.

# 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:

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

Specifications subject to change without notice.



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

<sup>2-</sup>One ECM is used per switching device or circuit.

<sup>3-</sup>Consult factory for other run times