



America's Leader in Life-Safety Lighting Products

FORTRESS 1



SPECIFICATIONS

The Fortress 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, 208V, 240V, 277V or 480V input 60Hz

OUTPUT

- 120V, 240V, 277V, 480V, 120/240 or 120/277VAC
True "on-line" design is $\geq 92\%$ efficient at 100% linear load

BATTERIES

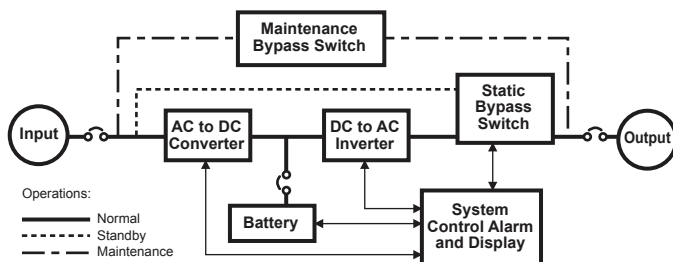
- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year prorated warranty
- DSP/PWM Smart Battery Monitoring System is **TEMPERATURE COMPENSATED** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

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

- 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



083-0012-02 Rev. B

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 Emergensee *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 Emergensee *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 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

- Emergensee 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 Emergensee phone assisted start-up
- 5-Year powertrain warranty
- Maintenance contracts available

FORTRESS 1



Fortress Outdoor 1	Power Rating	UPS			Battery			Weight (combined)	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals
		Cabinet Dimensions			Cabinet Dimensions						Input	Output		
FT1 (Consult factory for others)	KVA/KW	W	H	D	W	H	D	(lbs)	BTU's	Sealed, Maintenance free (AGM) lead calcium	<i>Select</i>	<i>Select</i>	Input and output circuit breakers standard	UL924 UL1778 NFPA 101 NFPA 70 NEC
	0.075	20"	24"	8"	not required			100	20.4					
	0.1	20"	24"	8"	not required			110	27.2					
	0.125	20"	24"	8"	not required			120	34					
	0.2	20"	24"	8"	not required			130	54.4					
	0.3	20"	24"	8"	not required			140	81.6					
	0.35	20"	24"	8"	not required			150	95.2					
	0.525	45"	51"	35.5"	not required			630	142.8					
	0.7	45"	51"	35.5"	not required			640	190.4					
	0.875	45"	51"	35.5"	not required			670	238					
	1.05	45"	51"	35.5"	not required			710	285.6					
	1.4	45"	51"	35.5"	not required			790	380.8					
	2.0	45"	51"	35.5"	not required			870	544					
	2.4	45"	51"	35.5"	not required			920	652.8					
	2.6	45"	51"	35.5"	not required			930	707.2					
	3.0	45"	51"	35.5"	not required			980	816					
	3.4	45"	51"	35.5"	not required			1030	924.8					
	3.8	45"	51"	35.5"	not required			1090	1033.6					
	4.2	45"	51"	35.5"	not required			1150	1142.4					
	4.7	45"	51"	35.5"	not required			1630	1278.4					
	5.25	45"	51"	35.5"	not required			1630	1428					
7.0	41"	72"	32"	not required			1880	1904						
8.0	41"	72"	32"	not required			1880	2176						
10.0	41"	72"	32"	not required			2250	2720						
12.0	41"	72"	32"	not required			2640	3264						
14.0	41"	72"	32"	41"	72"	32"	2945	3808						
18.0	41"	72"	32"	41"	72"	32"	4145	4896						
21.0	41"	72"	32"	41"	72"	32"	4555	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:

FT1 - 8.0 - 120/277 - ECM277/3 OCB/277/3/20/1 - 120

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, 120 minute run time)

FAMILY	POWER RATING	VOLTAGE ¹	OPTIONS	TIME ³
FT1	KW	Input/Output	Input/Output	Minutes
	0.075 3.0	120/120 240/120-240	ECM120 - 120V Environmental control module ² /qty	5
	0.1 3.4	120/208 240/120-277	ECM277 - 277V Environmental control module ² /qty	10
	0.125 3.8	120/277 277/120	NOF - Normally OFF output circuit/voltage / qty/pole	15
	0.2 4.2	120/480 277/277	NOH - Normally OFF "Hold ON"/voltage/qty/pole	20
	0.3 4.7	120/120-240 277/480	OCB - Output circuit breakers / voltage / quantity/amps/pole	25
	0.35 5.25	120/120-277 277/120-240	EPO - Emergency power off	30
	0.525 7.0	208/120 277/120-277	RSSP - Remote Indicator Panel	45
	0.7 8.0	208/208 480/120	SNMP - SNMP Card	60
	0.875 10.0	208/277 480/208	FC - Form C Contacts	90 (Standard)
	1.05 12.0	208/480 480/277	STU1 - Onsite start-up	120
	1.4 14.0	208/120-240 480/480	IDB - Internal dimmer bypass	180
	2.0 18.0	208/120-277 480/120-240	EMB - External maintenance bypass switch	240
	2.4 21.0	240/120 480/120-277	HE - Heat exchanger	
		240/208	HTR - Heater	
		240/277	EW - Extended warranty	
		240/480		

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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