

## FORTRESS 1

**0.075 KW - 21 KW Single Phase Uninterrupted Emergency Lighting and Power**

### 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, 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

### ORDERING INFORMATION:

FT1		VOLTAGE <sup>1</sup>		OPTIONS		TIME <sup>3</sup>
FAMILY	POWER RATING	Input/Output	Input/Output			Minutes
	<u>KW</u>			<b>ECM120</b> - 120V Environmental control module <sup>2</sup> /qty		5
	0.35 4.7	120/120	240/120-240	<b>ECM277</b> - 277V Environmental control module <sup>2</sup> /qty		10
	0.525 5.25	120/208	240/120-277	<b>NOF</b> - Normally OFF output circuit/voltage / qty		15
	0.7 7.0	120/277	277/120	<b>NOH</b> - Normally OFF "Hold ON"/voltage/qty		20
	0.875 8.0	120/480	277/208	<b>OCB</b> - Output circuit breakers / voltage / quantity/amps		25
	1.05 10.0	120/120-240	277/277	<b>EPO</b> - Emergency power off		30
	1.4 12.0	120/120-277	277/480	<b>RSSP</b> - Remote Indicator Panel		30
	2.0 14.0	208/120	277/120-240	<b>SNMP</b> - SNMP Card		45
	2.4 18.0	208/208	277/120-277	<b>FC</b> - Form C Contacts		60
	2.6 21.0	208/277	480/120	<b>STU1</b> - Onsite start-up		90 (Standard)
	3.0	208/480	480/208	<b>IDB</b> - Internal dimmer bypass		120
	3.4	208/120-240	480/277	<b>EMB</b> - External maintenance bypass switch		180
	3.8	208/120-277	480/480	<b>HE</b> - Heat exchanger		240
	4.2	240/120	480/120-240	<b>HTR</b> - Heater		
		240/208	480/120-277	<b>EW</b> - Extended warranty		
		240/277				
		240/480				

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	
	0.35	45"	51"	35"	not required			150	95.2		120,	120,			
	0.525	45"	51"	35.5"	not required			630	142.8		208,	208,			
	0.7	45"	51"	35.5"	not required			640	190.4		240,	277,			
	0.875	45"	51"	35.5"	not required			670	238		277	480,			
	1.05	45"	51"	35.5"	not required			710	285.6		or	120/240			
	1.4	45"	51"	35.5"	not required			790	380.8		480	or			
	2.0	45"	51"	35.5"	not required			870	544			120/277			
	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							

## 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

## 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 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)

## 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

