FORTRESS 1

DSPM
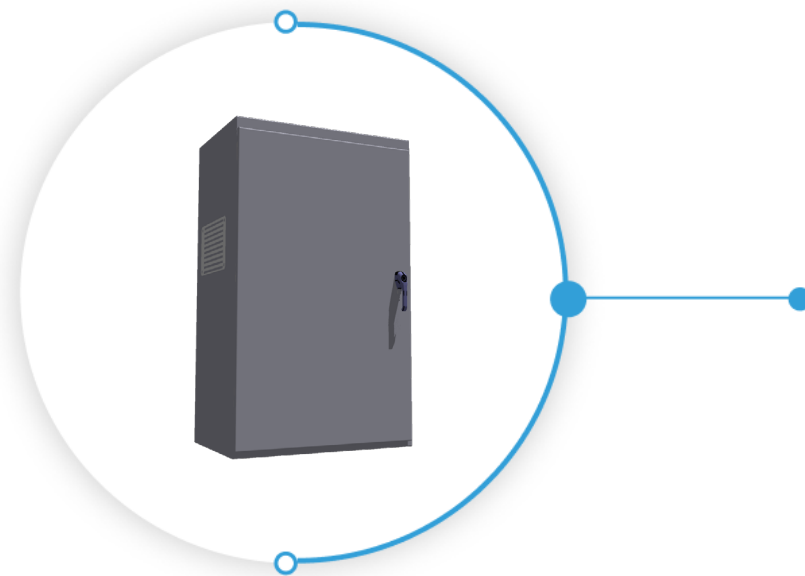DIGITAL SIGNAL POWER MANUFACTURER

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

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 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

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

CODES

- UL 924, UL 1778, meets NFPA 101, NFPA 70, NEC and OSHA standards
- Cities of Chicago and New York approved
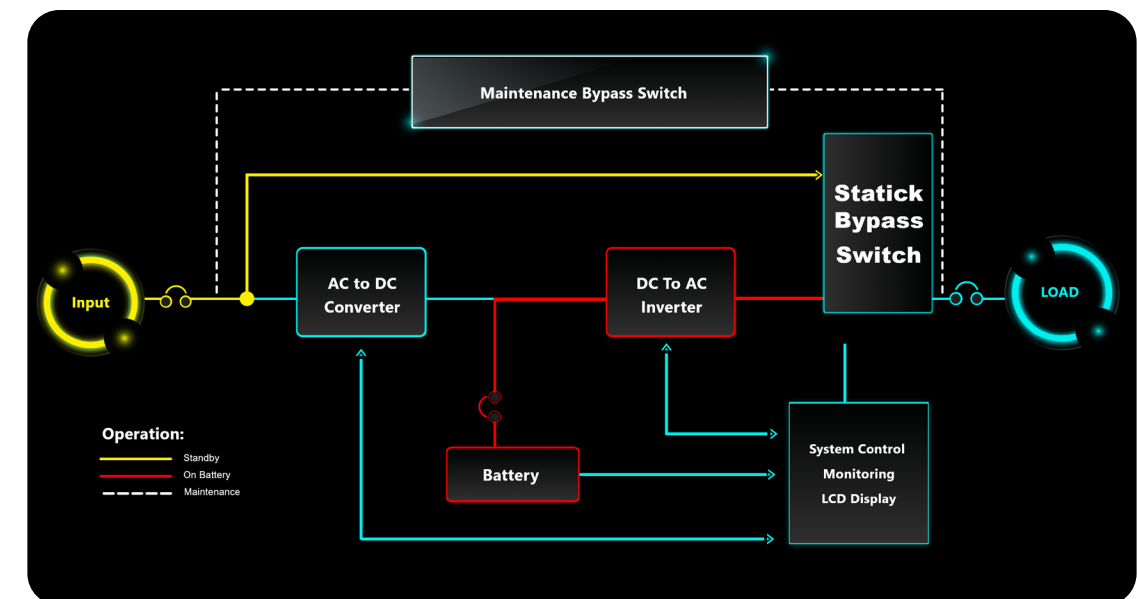- Complies with the Buy American Act

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 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)

0.075 KW - 21 KW

Single Phase

Uninterrupted

Emergency

Lighting and

Power

Systems

Fortress Outdoor 1	Power Ratings	UPS			Battery			Weight	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals
		Cabinet Dimentions			Cabinet Dimentions			(Combined)			Input	Output		
	KVA/Kw	W	H	D	W	H	D	(lbs)	BTUs					
FT1 (Consult factory for others)	0.35	(41+4)"	(48+4)"	36"	not required			150	95.2	Sealed, Maintance free (AGM) lead calcium			Input and output circuit breakers standard	UL924 UL1778 NFPA 101 NFPA 70 NEC
	0.525	(41+4)"	(48+4)"	36"	not required			630	142.8					
	0.7	(41+4)"	(48+4)"	36"	not required			640	190.4					
	0.875	(41+4)"	(48+4)"	36"	not required			670	238					
	1.05	(41+4)"	(48+4)"	36"	not required			710	285.6					
	1.4	(41+4)"	(48+4)"	36"	not required			790	380.8					
	2	(41+4)"	(48+4)"	36"	not required			870	544					
	2.4	(41+4)"	(48+4)"	36"	not required			920	652.8					
	2.6	(41+4)"	(48+4)"	36"	not required			930	707.2					
	3	(41+4)"	(48+4)"	36"	not required			980	816					
	3.4	(41+4)"	(48+4)"	36"	not required			1030	924.8					
	3.8	(41+4)"	(48+4)"	36"	not required			1090	1033.6					
	4.2	(41+4)"	(48+4)"	36"	not required			1150	1142.4					
	4.7	(41+4)"	(48+4)"	36"	not required			1630	1278.4					
	5.25	(41+4)"	(48+4)"	36"	not required			1630	1428					
	7	(41+4)"	(72+4)"	36"	not required			1880	1904					
	8	(41+4)"	(72+4)"	36"	not required			1880	2176					
	10	(41+4)"	(72+4)"	36"	not required			2250	2720					
	12	(41+4)"	(72+4)"	36"	not required			2640	3264					
	14	(41+4)"	(72+4)"	36"	(41+4)"	(72+4)"	36"	2945	3808					
	18	(41+4)"	(72+4)"	36"	(41+4)"	(72+4)"	36"	4145	4896					
	21	(41+4)"	(72+4)"	36"	(41+4)"	(72+4)"	36"	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 - 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, 120 minute run time)

FT1

FAMILY	POWER RATING	VOLTAGE [1]	OPTIONS	TIME [3]
	KW 0.075 3.0 0.1 3.4 0.125 3.8 0.2 4.2 0.3 4.7 0.35 5.25 0.525 7.0 0.7 8.0 0.875 10.0 1.05 12.0 1.4 14.0 2.0 18.0 2.4 21.0 2.6	**Input/Output** **120/120** **240/120-240** **120/208** **240/120-277** **120/277** **277/120** **120/480** **277/208** **120/120-240** **277/277** **120/120-277** **277/480** **208/120** **277/120-240** **208/208** **277/120-277** **208/277** **480/120** **208/480** **480/208** **208/120-240** **480/277** **208/120-277** **480/480** **240/120** **480/120-240** **240/208** **480/120-277** **240/277** **240/480**	**ECM120 -** 120V Environmental control module[2]/qty **ECM277 -** 277V Environmental control module[2]/qty **NOF -** Normally OFF output circuit/voltage/qty **NOH -** Normally OFF "Hold ON"/voltage/qty **OCB -** Output circuit breakers/voltage/quantity/amps **EPO -** Emergency power off **RSSP -** Remote Indicator Panel **SNMP -** SNMP Card **FC -** Form C Contacts **STU1 -** Onsite start-up **IDB -** Internal dimmer bypass **EMB -** External maintenance bypass switch **HE -** Heat exchanger **HTR -** Heater **EW -** Extended warranty	**Minutes** 5 10 15 20 25 30 45 60 90 (Standard) 120 180 240

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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