JOB NAME: _____

TYPE: _____

PART #: _____

NOTES: _____

FORTRESS 1

0.075– 21KW SINGLE PHASE
UNINTERRUPTED EMERGENCY LIGHTING & POWER SYSTEM

The Fortress 1 maintains efficient AC Emergency Power to operate all emergency lighting fixtures at “full-light” output after the transfer is complete, providing superior dependability and security to commercial and industrial environments in a small footprint.

POWER RATING

- 0.075KW – 21KW (or 75W – 21,000W) single phase output unit uses the latest DSP/PWM technology to provide the most advanced performance and reliability features

INPUT

- 120, 208, 240, 277 or 480V AC input 60Hz

OUTPUT

- 120, 277, 480, 120/240, 120/277 V AC output 60Hz
  True “on-line” design is ≥92% efficient at 100% linear load

BATTERIES

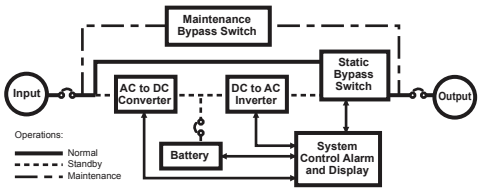
- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year pro-rated warranty
- Smart Battery Monitoring System is **Temperature Compensated** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

LAMPS & 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

- UL924, UL1778, NFPA101, NFPA70, NEC & OSHA standards
- Cities of Chicago and New York approved
- Complies with the Buy American Act



PROTECTION

- Provides overload, surge and undercurrent protection using DSP/PWM technology and 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 & MAINTENANCE

- DSP/PWM technology and 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 12KW are self-contained; large systems require external battery cabinet(s)

INSTALLATION

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

SPECIAL APPLICATIONS

- Offers numerous UL924 optional devices to meet unusual or difficult application parameters
- ECM - Envorinmental 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 Mfg. phone assisted start-up
- 5-Year powertrain warranty
- Maintenance contracts available

215-512-7000
www.usainverters.com

06/2021

JOB NAME: _____

TYPE: _____

PART #: _____

NOTES: _____

FORTRESS OUTDOOR 1	POWER RATING	UPS CABINET DIMENSIONS			WEIGHT	BRITISH THERMAL UNITS	BATTERY TYPE	VOLTAGE (VAC)		OUTPUT PROTECTION	SAFETY APPROVALS
	KVA/KW	W	H	D	(LBS)	BTUs		INPUT	OUTPUT		
	0.075	20”	24”	8”	100	20.4		(select)	(select)		
	0.1	20”	24”	8”	110	27.2		120	120		
	0.125	20”	24”	8”	120	34		208	277		
	0.2	20”	24”	8”	130	54.4		240	480		
	0.3	20”	24”	8”	140	81.6		277	120/240		
	0.35	20“	24“	8“	150	95.2		or 408	or		
	0.525	45”	51”	35.5”	630	142.8			120/277		
	0.7	45”	51”	35.5”	640	190.4					
	0.875	45”	51”	35.5”	670	238					
	1.05	45”	51”	35.5”	710	285.6					
	1.4	45”	51”	35.5”	790	380.8					
	2.0	45”	51”	35.5”	870	544					
	2.4	45”	51”	35.5”	920	652.8					
	2.6	45”	51”	35.5”	930	707.2					
	3.0	45”	51”	35.5”	980	816					
	3.4	45”	51”	35.5”	1030	924.8					
	3.8	45”	51”	35.5”	1090	1033.6					
	4.2	45”	51”	35.5”	1150	1142.4					
	4.7	45”	51”	35.5”	1630	1278.4					
	5.25	45”	51”	35.5”	1630	1428					
	7.0	41”	72”	32”	1880	1904					
	8.0	41”	72”	32”	1880	2176					
	10.0	41”	72”	32”	2250	2720					
	12.0	41”	72”	32”	2640	3264					
	14.0	41”	72”	32”	2945	3808					
	18.0	41”	72”	32”	4145	4896					
	21.0	41”	72”	32”	5712	5712					
USAFT1							SEALED, MAINTENANCE FREE (AGM) LEAD CALCIUM			INPUT & OUTPUT CIRCUIT BREAKERS STANDARD	UL924 UL1778 NFPA101 NFPA70 NEC

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:

USAFT1-8.0-120/277-ECM277/3 OCB/277/3/20/1-120

Description of Example:

(8.0KW, 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)

USAFT1 - - - -

FAMILY

POWER RATING

KW

0.075	1.05	4.7
0.1	1.4	5.25
0.125	2.0	7.0
0.2	2.4	8.0
0.3	2.6	10.0
0.35	3.0	12.0
0.525	3.4	14.0
0.7	3.8	18.0
0.875	4.2	21.0

VOLTAGE[1]

INPUT/OUTPUT	INPUT/OUTPUT
120/120	240/120-240
120/208	240/120-277
120/277	277/120
120/480	277/277
120/120-240	277/480
120/120-277	277/120-240
208/120	277/120-277
208/277	480/120
208/480	480/277
208/120-240	480/480
208/120-277	480/120-240
240/120	480/120-277
240/277	
240/480	

OPTIONS

- **ECM120** – 120V Environmental Control Module[2]/qty
- **ECM277** – 277V Environmental Control Module[2]/qty
- **NOF** – Normally “OFF” output circuit/voltage/qty/pole
- **NOH** – Normally OFF “HOLD ON”/voltage/qty/pole
- **OCB** – Output Circuit Breakers/voltage/qty/amps/pole
- **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
- **HTR** – Heater
- **EW** – Extended Warranty

TIME[3]

Minutes

5
10
15
20
25
30
45
60
90 (Standard)
120
180
240

[1] Consult factory for other voltage requirements
Special voltages may effect the weight, size and number of cabinets
[2] One ECM is used per switching device or circuit
[3] Consult factory for other run times

215-512-7000
www.usainverters.com