



# FORTRESS 1

## 0.075- 21KW SINGLE PHASE UNINTERRUPTED EMERGENCY LIGHTING & POWER SYSTEM

The Emergensee 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 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

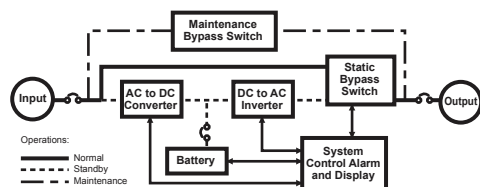
- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year pro-rated warranty
- Smart Battery Monitoring System is **Temperature Compensated** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and overcharge protection standard

### 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 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

- Our 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 - 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 Mfg. phone assisted start-up
- 5-Year powertrain warranty
- Maintenance contracts available

| FORTRESS<br>OUTDOOR<br>1 | POWER<br>RATING | UPS                   |     |       | WEIGHT | BRITISH<br>THERMAL<br>UNITS | BATTERY<br>TYPE   | VOLTAGE<br>(VAC) |            | OUTPUT<br>PROTECTION                                 | SAFETY<br>APPROVALS                         |
|--------------------------|-----------------|-----------------------|-----|-------|--------|-----------------------------|---|------------------|------------|--|---|
|                          |                 | CABINET<br>DIMENSIONS |     |       |        |                             |   | INPUT            | OUTPUT     |  |   |
| SEEFT1                   | KVA/KW          | W                     | H   | D     | (LBS)  | BTUs                        | SEALED,<br>MAINTENANCE<br>FREE (AGM)<br>LEAD<br>CALCIUM | (select)         | (select)   | INPUT &<br>OUTPUT<br>CIRCUIT<br>BREAKERS<br>STANDARD | UL924<br>UL1778<br>NFPA101<br>NFPA70<br>NEC |
|                          | 0.075           | 20"                   | 24" | 8"    | 100    | 20.4                        |   | 120              | 120        |  |   |
|                          | 0.1             | 20"                   | 24" | 8"    | 110    | 27.2                        |   | 208              | 277        |  |   |
|                          | 0.125           | 20"                   | 24" | 8"    | 120    | 34                          |   | 240              | 480        |  |   |
|                          | 0.2             | 20"                   | 24" | 8"    | 130    | 54.4                        |   | 277              | 120/240    |  |   |
|                          | 0.3             | 20"                   | 24" | 8"    | 140    | 81.6                        |   | or 408           | or 120/277 |  |   |
|                          | 0.35            | 20"                   | 24" | 8"    | 150    | 95.2                        |   |                  |            |  |   |
|                          | 0.525           | 45"                   | 51" | 35.5" | 630    | 142.8                       |   |                  |            |  |   |
|                          | 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                        |   |                  |            |  |   |

- 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:

SEEFT1-8.0-120/277-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)

| FT1    |       |              |      |  |                      |              |  |  |                   |  |
|--------|-------|--------------|------|--|----------------------|--------------|--|--|-------------------|--|
| FAMILY |       | POWER RATING |      |  | VOLTAGE <sup>1</sup> |              | OPTIONS  |  | TIME <sup>3</sup> |  |
|        |       | KW           |      |  | INPUT/OUTPUT         | INPUT/OUTPUT |  |  | Minutes           |  |
|        | 0.075 | 1.05         | 4.7  |  | 120/120              | 240/120-240  | ECM120 – 120V Environmental Control Module <sup>2</sup> /qty |  | 5                 |  |
|        | 0.1   | 1.4          | 5.25 |  | 120/208              | 240/120-277  | ECM277 – 277V Environmental Control Module <sup>2</sup> /qty |  | 10                |  |
|        | 0.125 | 2.0          | 7.0  |  | 120/277              | 277/120      | NOF – Normally "OFF" output circuit/voltage/qty/pole         |  | 15                |  |
|        | 0.2   | 2.4          | 8.0  |  | 120/480              | 277/277      | NOH – Normally OFF "HOLD ON"/voltage/qty/pole                |  | 20                |  |
|        | 0.3   | 2.6          | 10.0 |  | 120/120-240          | 277/480      | OCB – Output Circuit Breakers/voltage/qty/amps/pole          |  | 25                |  |
|        | 0.35  | 3.0          | 12.0 |  | 120/120-277          | 277/120-240  | EPO – Emergency Power Off                                    |  | 30                |  |
|        | 0.525 | 3.4          | 14.0 |  | 208/120              | 277/120-277  | RSSP – Remote Indicator Panel                                |  | 45                |  |
|        | 0.7   | 3.8          | 18.0 |  | 208/277              | 480/120      | SNMP – SNMP Card   |  | 60                |  |
|        | 0.875 | 4.2          | 21.0 |  | 208/480              | 480/277      | FC – Form "C" Contacts                                       |  | 90 (Standard)     |  |
|        |       |              |      |  | 208/120-240          | 480/480      | STU1 – Onsite Start-up                                       |  | 120               |  |
|        |       |              |      |  | 208/120-277          | 480/120-240  | IDB – Internal Dimmer Bypass                                 |  | 180               |  |
|        |       |              |      |  | 240/120              | 480/120-277  | EMB – External Maintenance Bypass Switch                     |  | 240               |  |
|        |       |              |      |  | 240/277              |              | HTR – Heater   |  |                   |  |
|        |       |              |      |  | 240/480              |              | EW – Extended Warranty                                       |  |                   |  |

<sup>1</sup> Consult factory for other voltage requirements  
Special voltages may effect the weight, size and number of cabinets

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

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