



## SPECIFICATIONS

*The Fortress 3 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

- 3 KW - 125 KW (or 3,000 Watts - 125,000 Watts) three phase output unit uses the latest DSP/PWM technology to provide the most advanced performance and reliability features

### INPUT

- 208Y/120, 480Y/277, 208 or 480VAC input 60Hz

### OUTPUT

- 208Y/120 or 480Y/277VAC True "on-line" design is  $\geq 92\%$  efficient at 100% linear load

### BATTERIES

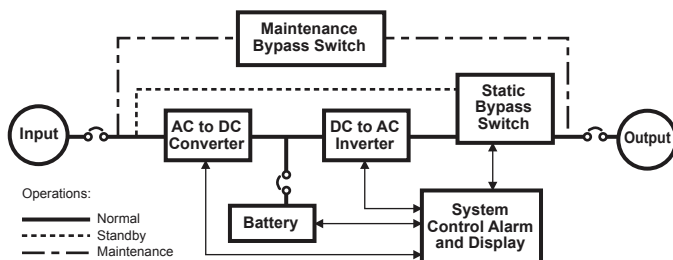
- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year prorated warranty
- DSP/PWM Smart Battery Monitoring System is **TEMPERATURE COMPENSATED** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

### 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



|                |       |
|----------------|-------|
| Catalog Number |       |
| Project        | Notes |
| Signature      | Date  |

## 3 KW - 125 KW

### Three Phase

### Uninterrupted Emergency Lighting and Power Systems



### PROTECTION

- Provides overload, surge and undercurrent protection using DSP/PWM technology and Envoy *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 Envoy *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 10 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

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

# FORTRESS 3



| Fortress Outdoor 3                                  | Power Rating    | UPS                |     |     | Battery            |     |     |     | Weight     | British Thermal Unit | Battery Type                                | Voltage (VAC)  |        | Output Protection                          | Safety Approvals                              |
|---|-----------------|--------------------|-----|-----|--------------------|-----|-----|-----|------------|----------------------|---|--|--------|--|---|
|   |                 | Cabinet Dimensions |     |     | Cabinet Dimensions |     |     |     | (combined) |                      |   | Input  | Output |  |   |
| FT3<br><br>(Consult factory for other capabilities) | KVA/KW          | W                  | H   | D   | No.                | W   | H   | D   | (lbs)      | BTU's                | Sealed, Maintenance free (AGM) lead calcium | Input  | Output | Input and output circuit breakers standard | UL924<br>UL1778<br>NFPA 101<br>NFPA 70<br>NEC |
|   | 3               | 41"                | 72" | 32" | not required       |     |     |     | 1480       | 816                  |   | <u>Select</u><br>208Y/120VAC, 480Y/277VAC, 208 or 480VAC<br>(Consult factory for others) |        |  |   |
|   | 4.5             | 41"                | 72" | 32" | not required       |     |     |     | 1600       | 1224                 |   |  |        |  |   |
|   | 6               | 41"                | 72" | 32" | not required       |     |     |     | 1850       | 1632                 |   |  |        |  |   |
|   | 8               | 41"                | 72" | 32" | not required       |     |     |     | 2200       | 2176                 |   |  |        |  |   |
|   | 10              | 41"                | 72" | 32" | not required       |     |     |     | 2750       | 2720                 |   |  |        |  |   |
|   | 12              | 41"                | 72" | 32" | 1                  | 41" | 72" | 32" | 3200       | 3264                 |   |  |        |  |   |
|   | 16              | 41"                | 72" | 32" | 1                  | 41" | 72" | 32" | 3450       | 4352                 |   |  |        |  |   |
|   | 20              | 41"                | 72" | 32" | 1                  | 41" | 72" | 32" | 4300       | 5440                 |   |  |        |  |   |
|   | 24              | 41"                | 72" | 32" | 2                  | 41" | 72" | 32" | 5050       | 6528                 |   |  |        |  |   |
|   | 30              | 41"                | 72" | 32" | 2                  | 41" | 72" | 32" | 5900       | 8160                 |   |  |        |  |   |
|   | 40              | 41"                | 72" | 32" | 3                  | 41" | 72" | 32" | 6750       | 10880                |   |  |        |  |   |
|   | 60              | Consult Factory    |     |     |                    |     |     |     |            | 16320                |   |  |        |  |   |
|   | 80              | Consult Factory    |     |     |                    |     |     |     |            | 21760                |   |  |        |  |   |
| 100   | Consult Factory |                    |     |     |                    |     |     |     | 27200      |                      |   |  |        |  |   |
| 125   | Consult Factory |                    |     |     |                    |     |     |     | 34000      |                      |   |  |        |  |   |

We sincerely hope you never experience a real emergency, but if you do, you deserve the **security, safety** and **peace of mind** that the Fortress 3 from **Envoy** ensures.

## 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:

**FT3 - 12.0 - 208Y/120 208Y/120- EMB OCB/120/3/20/1 - 180**

Description of example:

(12.0 KW, 208Y/120 Voltage In, 208Y/120 Voltage Out, External Maintenance Bypass Switch, 3 Output 120 Voltage Circuit Breakers at 20amps, 2 pole, 180 minute run time)

| FT3    |              |                      |  |                   |
|--------|--------------|----------------------|--|-------------------|
| FAMILY | POWER RATING | VOLTAGE <sup>1</sup> | OPTIONS  | TIME <sup>3</sup> |
|        | <u>KW</u>    | <u>Input/Output</u>  | <u>ECM120</u> - 120V Environmental control module <sup>2</sup> / qty | <u>Minutes</u>    |
|        | 3.0          | 208Y/120 - 208Y/120  | <u>ECM277</u> - 277V Environmental control module <sup>2</sup> / qty | 5                 |
|        | 4.5          | 208Y/120 - 480Y/277  | <u>NOF</u> - Normally OFF output circuit/voltage / qty/pole          | 10                |
|        | 6.0          | 480Y/277 - 208Y/120  | <u>NOH</u> - Normally OFF "Hold ON"/voltage/qty/pole                 | 15                |
|        | 8.0          | 480Y/277 - 480Y/277  | <u>OCB</u> - Output circuit breakers / voltage / quantity/amps/pole  | 20                |
|        | 10.0         | 208 - 208Y/120       | <u>EPO</u> - Emergency power off                                     | 25                |
|        | 12.0         | 208 - 480Y/277       | <u>RSSP</u> - Remote Indicator Panel                                 | 30                |
|        | 16.0         | 480 - 208Y/120       | <u>SNMP</u> - SNMP Card  | 45                |
|        | 20.0         | 480 - 480Y/277       | <u>FC</u> - Form C Contacts  | 60                |
|        | 24.0         |                      | <u>STU3</u> - Onsite start-up  | 90 (Standard)     |
|        | 30.0         |                      | <u>IDB</u> - Internal dimmer bypass                                  | 120               |
|        | 40.0         |                      | <u>EMB</u> - External maintenance bypass switch                      | 180               |
|        | 60.0         |                      | <u>HE</u> - Heat exchanger   | 240               |
|        | 80.0         |                      | <u>HTR</u> - Heater  |                   |
|        | 100.0        |                      | <u>EW</u> - Extended warranty  |                   |
|        | 125.0        |                      |  |                   |

### 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.

