

## FORTRESS 3

**3 KW - 125 KW Three Phase Uninterrupted Emergency Lighting and Power Systems**

### 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 ≥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

### 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

### ORDERING INFORMATION:

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

Fortress Outdoor 3	Power Rating	UPS			Battery				Weight (combined)	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals
		Cabinet Dimensions			Cabinet Dimensions							Input	Output		
FT3 (Consult factory for other capabilities)	KVA/KW	W	H	D	No.	W	H	D	(lbs)	BTU's	Sealed, Maintenance free (AGM) lead calcium	Input and output circuit breakers standard	<i>Select</i> 208Y/120VAC, 480Y/277VAC, 208 or 480VAC (Consult factory for others)	UL924 UL1778 NFPA 101 NFPA 70 NEC	
	3	41"	72"	32"	not required				1480	816					
	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					

### 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

### 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

### 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

### 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

