



## SPECIFICATIONS

*The Defender 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 a small footprint.*

### POWER RATING

- 4.7 KW - 21 KW (or 4,700 Watts - 21,000 Watts) single phase output unit uses the latest DSP/PWM technology to provide the most advanced performance and reliability features

### INPUT

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

### OUTPUT

- 120V, 208V, 240V, 277V, 480V, 120/240 or 120/277VAC  
True "on-line" design is  $\geq 92\%$  efficient at 100% linear load

### BATTERIES

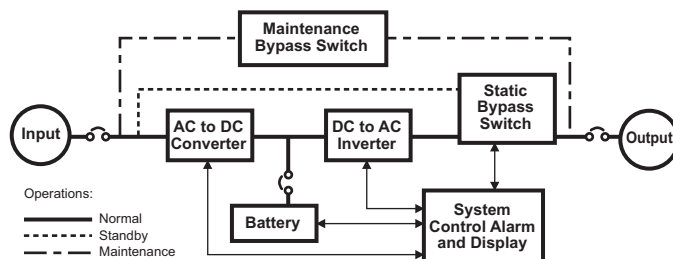
- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year prorated warranty
- DSP Smart Battery Monitoring System is **TEMPERATURE COMPENSATED** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP overcharge protection standard

### 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

## 4.7 KW - 21 KW

### Single Phase

## Uninterrupted Emergency Lighting and Power Systems



### PROTECTION

- Provides overload, surge and undercurrent protection using DSP/PWM "Watchdog Monitoring" Protection System performance and reliability features
- Surge protection against load surges as defined in ANSI/IEEE C62.45 category A and B

### DIAGNOSTICS AND MAINTENANCE

- DSP/PWM Watchdog Monitoring System provides complete self diagnostic capabilities and LED Monitor
- Informative advanced DSP 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

### CABINET

- Modular design enables flexible installation
- Forced air cooling for maximum reliability
- Systems up to 14 KW are self contained; larger systems require external battery cabinet(s)

### 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

### 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

