



# DEFENDER MINI

## 350- 2000W SINGLE PHASE UNINTERRUPTED EMERGENCY LIGHTING & POWER SYSTEM

The Defender Mini maintains efficient AC Emergency Power to operate all emergency lighting fixtures at “full-light” output, providing superior dependability and security to commercial and industrial environments in a small footprint.

### POWER RATING

- 350W – 2000W 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, 240, 277, 480, 120/240, 120/277 V AC  
True “on-line” design is ≥92% efficient at 100% linear load

### BATTERIES

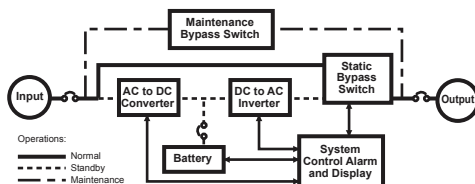
- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year pro-rated warranty
- Smart Battery Monitoring System is **Temperature Compensated** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

### 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

### CABINET

- Modular design enables flexible installation
- Forced air cooling for maximum reliability
- Systems up to 14KW 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

DEFENDER MINI SERIES	POWER RATING	UPS			WEIGHT	BRITISH THERMAL UNITS	VOLTAGE (VAC)		OUTPUT PROTECTION	SAFETY APPROVALS
		CABINET DIMENSIONS					INPUT	OUTPUT		
DMINI	VA/W	W	H	D	(LBS)	BTUs			INPUT & OUTPUT CIRCUIT BREAKERS STANDARD	UL924 UL1778 NFPA101 NFPA70 NEC
	350	24"	26"	16"	340	95.2	Select	Select		
	525	24"	26"	16"	340	142.8	120,	120,		
	700	24"	26"	16"	370	190.4	208,	277,		
	750	24"	26"	16"	370	204	240,	480,		
	875	24"	26"	16"	370	238	277	120/240		
	1050	24"	26"	16"	440	285.6	or	or		
	1400	24"	26"	16"	460	544	480	120/277		
2000	24"	26"	16"	600	680.8					

The Defender Mini provides the simplicity and reliability that is critical when providing an alternative source of power to any environment. Easy installation... "simplicity" ...connect the Defender Mini to the emergency circuit(s) and everything is backed up... "reliability" ...during a power outage. All lighting connections to the Defender Mini will simply continue to operate at "**FULL LIGHT OUTPUT**" once the transfer is complete. Watchdog Software keeps your environment safe while self-diagnostics help maintain equipment to a high standard. Superior surge suppression assures the highest quality of power being delivered to all loads, all the time.

We sincerely hope you never experience a real emergency, but if you do, you deserve the **SECURITY, SAFETY AND PEACE OF MIND** that the Defender Mini 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:

**DMINI-1050-208/120-OCB/120/3/20/1 NOF/120/1-90**

Description of Example:

(1050W, 208 Voltage In, 120 Voltage Out, 3 Output 120 Voltage Circuit Breakers at 20amps, 2 pole, 1 Normally Off 120 Volt Output Circuit, 90 minute run time)

DMINI - - - -					
FAMILY	POWER RATING	VOLTAGE <sup>1</sup>		OPTIONS	TIME <sup>3</sup>
	VA/W	INPUT/OUTPUT	INPUT/OUTPUT		Minutes
	350	120/120	240/120-240	ECM120 – 120V Environmental Control Module <sup>2</sup> /qty	5
	525	120/277	240/120-277	ECM277 – 277V Environmental Control Module <sup>2</sup> /qty	10
	700	120/480	277/120	NOF – Normally "OFF" output circuit/voltage/qty/pole	15
	750	120/120-240	277/277	NOH – Normally OFF "HOLD ON"/voltage/qty/pole	20
	875	120/120-277	277/480	OCB – Output Circuit Breakers/voltage/qty/amps/pole	25
	1050	208/120	277/120-240	EPO – Emergency Power Off	30
	1400	208/277	277/120-277	RSSP – Remote Indicator Panel	45
	2000	208/480	480/120	SNMP – SNMP Card	60
		208/120-240	480/277	FC – Form "C" Contacts	90 (Standard)
		208/120-277	480/480	WB – Wall Mounted Bracket	120
		240/120	480/120-240	STUM – Onsite Start-up	180
		240/277	480/120-277	IDB – Internal Dimmer Bypass	240
		240/480		EMB – External Maintenance Bypass Switch	
				EW – Extended Warranty	

<sup>1</sup> Consult factory for other voltage requirements  
 Special voltages may affect the weight, size and number of cabinets  
<sup>2</sup> One ECM is used per switching device or circuit  
<sup>3</sup> Consult factory for other run times