USA INVERTERS

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
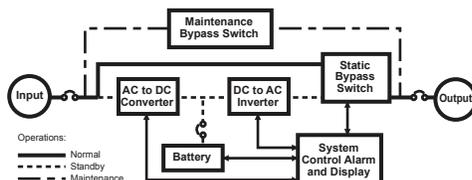 True "on-line" design is ≥92% efficient at 100% linear load

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

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-dianostics help maintain equipment to a high standard. Superior surge supression 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:
USADMINI-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)

USADMINI - _____ - _____ - _____ - _____

FAMILY	POWER RATING	VOLTAGE[1]		OPTIONS	TIME[3]
	VA/W	INPUT/OUTPUT	INPUT/OUTPUT		Minutes
	350	120/120	240/120-240	**ECM120** – 120V Environmental Control Module[2]/qty	5
	525	120/277	240/120-277	**ECM277** – 277V Environmental Control Module[2]/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	

[1] Consult factory for other voltage requirements
Special voltages may effect the weight, size and number of cabinets
[2] One ECM is used per switching device or circuit
[3] Consult factory for other run times