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DEFENDER PLUS

2.4- 4.2KW SINGLE PHASE UNINTERRUPTED EMERGENCY LIGHTING & POWER SYSTEM

The Defender Plus maintains efficient AC Emergency Power to operate all emergency lighting fixtures at "full-light" output after the transfer is complete, providing superior dependability and security to commercial and industrial environments in a small footprint.

POWER RATING

 2.4KW – 4.2KW (or 2,400W – 4,200W) 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, 277, 480, 120/240, 120/277 V AC output 60Hz True "on-line" design is ≥92% efficient at 100% linear load

BATTERIES

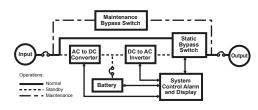
- · Sealed, maintenance-free, lead calcium (AGM) batteries
- · 10-Year pro-rated warranty
- Smart Battery Monitoring System is **Temperature Compensated**maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

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
- \bullet 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

- · Space saving small footprint
- Modular design enables flexible installation

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



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NOTES: _____

PLUS SERIES	POWER RATING	UPS CABINET DIMENSIONS			WEIGHT	BRITISH THERMAL UNITS	BATTERY TYPE		TAGE AC)	OUTPUT PROTECTION	SAFETY APPROVALS
USADPLUS	KVA/KW 2.4 2.6 3.0 3.4 3.8 4.2	W 26" 26" 26" 26" 26"	H 44" 44" 44" 44" 44"	D 26" 26" 26" 26" 26"	(LBS) 700 700 800 800 800 920	BTUs 652.8 707.2 816 924.8 1033.6 1142.4	SEALED, MAINTENANCE FREE (AGM) LEAD CALCIUM	INPUT (select) 120 208 240 277 or 408	OUTPUT (select) 120 277 480 120/240 or 120/277	INPUT & OUTPUT CIRCUIT BREAKERS STANDARD	UL924 UL1778 NFPA101 NFPA70 NEC

The Defender Plus provides the simplicity and reliability that is critical when providing an alternative source of power to any environment. Easy installation... "simplicity" ...connect the Defender Plus to the emergency circuit(s) and everything is backed up... "reliability" ...during a power outage. All lighting connections to the Defender Plus 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 Plus 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:

USADPLUS-4.2-277/277-ECM277/3 OCB/277/3/20/1-45

Description of Example:

(4.2KW, 277 Voltage In, 277 Voltage Out, 3 277V Environmental Control Modules, 3 Output 277 Voltage Circuit Breakers at 20amps, 2 pole, 45 minute run time)

USACPLUS -

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FAMILY	POWER RATING	VOL	TAGE ¹	OPTIONS	TIME ³	
	KW	INPUT/OUTPUT	INPUT/OUTPUT	ECM120 – 120V Environmental Control Module ² /qty	Minutes	
	2.4	120/120	240/120-240	ECM277 – 277V Environmental Control Module ² /qty	5	
	2.6	120/277	240/120-277	NOF - Normally "OFF" output circuit/voltage/qty/pole	10	
	3.0	120/480	277/120	NOH – Normally OFF "HOLD ON"/voltage/qty/pole	15	
	3.4	120/120-240	277/277	OCB - Output Circuit Breakers/voltage/qty/amps/pole	20	
	3.8	120/120-277	277/480	EPO – Emergency Power Off	25	
	4.2	208/120	277/120-240	RSSP – Remote Indicator Panel	30	
		208/277	277/120-277	SNMP – SNMP Card	45	
		208/480	480/120	FC – Form "C" Contacts	60	
		208/120-240	480/277	SRB – Seismic Rated Bracket	90 (Standard	
		208/120-277	480/480	STU1 – Onsite Start-up	120	
		240/120	480/120-277	IDB – Internal Dimmer Bypass	180	
		240/277	480/120-277	EMB – External Maintenance Bypass Switch	240	
It factory for other voltage re al voltages may effect the we CM is used per switching de It factory for other run times	eight, size and number of cabinets evice or circuit	240/480		EW – Extended Warranty		