

DEFENDER PLUS

SPECIFICATIONS

The Defender Plus 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

- 2.4 KW - 4.2 KW (or 2,400 Watts - 4,200 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, 277V, 480V, 120/240 or 120/277VAC output 60Hz.
True "on-line" design is $\geq 92\%$ efficient at 100% linear load

BATTERIES

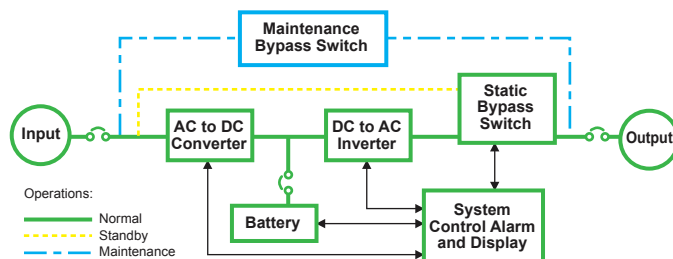
- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year prorated warranty
- DSP/PWM Smart Battery Monitoring System is **TEMPERATURE COMPENSATED** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

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

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

2.4 KW - 4.2 KW

Single Phase

Uninterrupted Emergency Lighting and Power Systems



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

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

CABINET

- Space saving small footprint
- Modular design enables flexible installation

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

DEFENDER PLUS



Defender Plus Series	Power Rating	UPS			Weight	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals
		Cabinet Dimensions						Input	Output		
DPLUS	KVA/KW	W	H	D	(lbs)	BTU's	Sealed, Maintenance free (AGM) lead calcium	Input	Output	Input and output circuit breakers standard	UL924 UL1778 NFPA 101 NFPA 70 NEC
	2.4	26"	44"	26"	700	652.8		<u>Select</u>	<u>Select</u>		
	2.6	26"	44"	26"	700	707.2		120, 208, 240, 277 or 480	120, 277, 480, 120/240 or 120/277		
	3.0	26"	44"	26"	800	816					
	3.4	26"	44"	26"	800	924.8					
	3.8	26"	44"	26"	800	1033.6					
	4.2	26"	44"	26"	920	1142.4					

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 Plus to the emergency circuit(s) and everything is backed up ... "reliability" ... during a power outage. All lighting connected to the Plus will simply continue to operate at "full light output". DSPM 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. Equipment and lamp life are maximized.

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 from **DSPM** 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:

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

Description of example:

(4.2 KW, 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)

DPLUS									
FAMILY		POWER RATING		VOLTAGE ¹		OPTIONS		TIME ³	
	KW		Input/Output		Input/Output				Minutes
	2.4		120/120		240/120-240		ECM120 - 120V Environmental control module ² /qty		5
	2.6		120/277		240/120-277		ECM277 - 277V Environmental control module ² /qty		10
	3.0		120/480		277/120		NOF - Normally OFF output circuit/voltage / qty/pole		15
	3.4		120/120-240		277/277		NOH - Normally OFF "Hold ON"/voltage/qty/pole		20
	3.8		120/120-277		277/480		OCB - Output circuit breakers / voltage / quantity/amps/pole		25
	4.2		208/120		277/120-240		EPO - Emergency power off		30
			208/277		277/120-277		RSSP - Remote Indicator Panel		45
			208/480		480/120		SNMP - SNMP Card		60
			208/120-240		480/277		FC - Form C Contacts		90 (Standard)
			208/120-277		480/480		SRB - Seismic rated bracket		120
			240/120		480/120-240		STU1 - Onsite start-up		180
			240/277		480/120-277		IDB - Internal dimmer bypass		240
			240/480				EMB - External maintenance bypass switch		
							EW - Extended warranty		

NOTES:

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.

Specifications subject to change without notice.



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