

DEFENDER PLUS

2.4 KW - 4.2 KW Single Phase
Uninterrupted Emergency Lighting and Power Systems

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

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

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

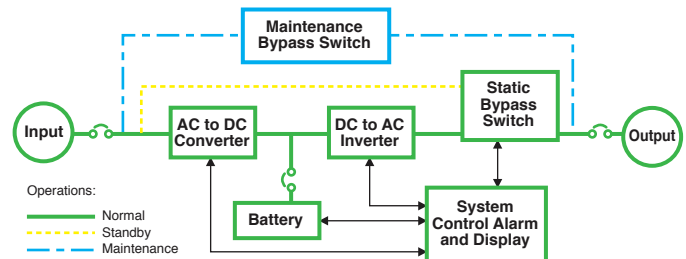


OUTPUT

- 120V, 277V, 480V, 120/240 or 120/277VAC output 60Hz. True "on-line" design is ≥92% efficient at 100% linear load

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



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	

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	<u>Select</u>	<u>Select</u>	Input and output circuit breakers standard	UL924 UL1778 NFPA 101 NFPA 70 NEC
	2.4	26"	44"	26"	700	652.8		120,	120,		
	2.6	26"	44"	26"	700	707.2		208,	277, 480,		
	3.0	26"	44"	26"	800	816		240,	120/240		
	3.4	26"	44"	26"	800	924.8		277	or		
	3.8	26"	44"	26"	800	1033.6		or	120/277		
4.2	26"	44"	26"	920	1142.4	480					

CABINET

- Space saving small footprint
- Modular design enables flexible installation
- NEMA 1 rated

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

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

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