



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.

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

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 run-time and battery life.
- Microprocessor controlled recharge and DSP/PWM over-charge protection standard.

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

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

LAMPS AND LOADS

- Emergency power provides FULL LIGHT OUTPUT from all lamps and fixtures for the entire runtime
- Operates fluorescent, compact fluorescent, incandescent, quartz, 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

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

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

SPECIAL APPLICATIONS

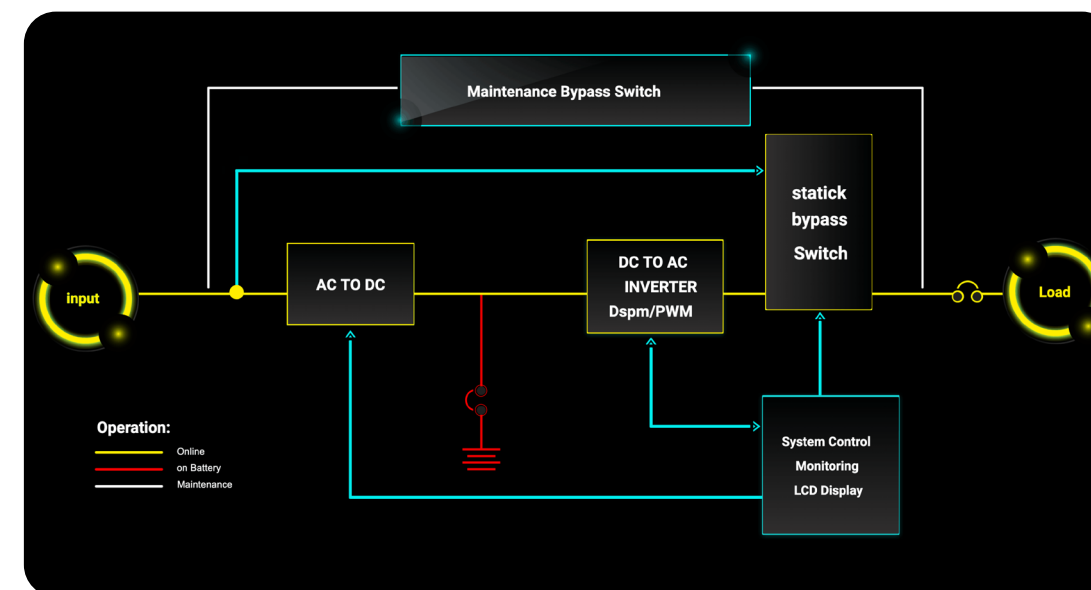
- DSPM offers numerous UL924 optional devices to meet unusual or difficult application parameters
- ECM - Environmental Circuit Module allows fixtures and lamps on the emergency circuit(s) to be operated by normal switching and/or dimming devices in NON-emergency conditions
- Dimming Panel Interface allows use with emergency lights controlled by common dimmer panel

CABINET

- Space saving small footprint
- Modular design enables flexible installation



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



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					

The Cobra 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" once the transfer is complete. 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.

We sincerely hope you never experience a real emergency, but if you do, you deserve the security, safety and peace of mind that the Cobra 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
	<u>KW</u>	<u>Input/Output</u>	<u>Input/Output</u>	ECM120 - 120V Environmental control module ² /qty	<u>Minutes</u>
	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 / quantity/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	480/120-240	IDB - Internal dimmer bypass	180
		240/277	480/120-277	EMB - External maintenance bypass switch	240
		240/480		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.



439 S. Stoddard Avenue San Bernardino, CA 92401

Ph: 1.877.DSPM POWER 1.877.377.6769 Fax: 909.930.3335