

DEFENDER 1



SPECIFICATIONS

 The Defender 1 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

 4.7 KW - 21 KW (or 4,700 Watts - 21,000 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, 240V, 277V, 480V, 120/240 or 120/277VAC
 True "on-line" design is ≥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 TEM-PERATURE COMPENSATED maintaining maximum runtime and battery life.
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard.

CODES

 UL 924, UL 1778, meets NFPA 101, NFPA 70, NEC and OSHA standards

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- Cities of Chicago and New York approved
- Complies with the Buy American Act



4.7 KW - 21 KW

Single Phase

Uninterrupted

Emergency

Lighting and

Power

Systems



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

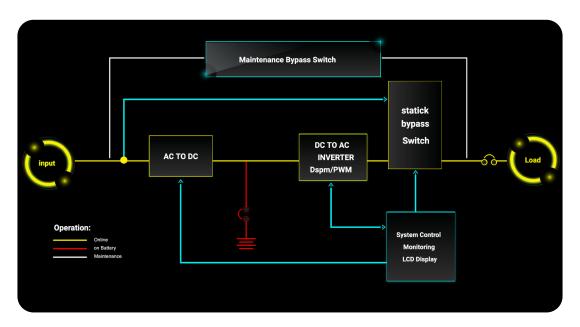
SPECIAL APPLICATIONS

- 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

- Modular design enables flexible installation
- Forced air cooling for maximum reliability
- NEMA 1 rated
- Systems up to 14 KW are self contained; larger systems

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Data Sheet

Defender 1 Series	Power Ratings	UPS Cabinet			Battery Cabinet			Weight	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals
		Dimentions			Dimentions									
DE1	kVA/KW	W	Н	D	W	Н	D	(lbs)	BTU s	Input	Input	Output	_	
	4.7*	42"	71"	22.5"		not required		1200	1278.4					
	5.25*	42"	71"	22.5"	not required			1200	1428	Sealed,	<u>Select</u>	<u>Select</u> 120, 277,	Input and output circuit	UL924 UL1778 NFPA 101
	7*	42"	71"	22.5"	not required			1450	1904	Maintance	120			
	8*	42"	71"	22.5"	not required			1450	2176		208,			
	10*	42"	71"	22.5"		not required		1820	2720	lead 2 calcium 2	240,	480,	breakers standard	NFPA 70 NEC
	12*	42"	71"	22.5"		not required		2210	3264		277	120/240 or		
	14*	42"	71"	22.5"		not required		2550	3808		or			
	18	42"	71"	22.5"	42"	71"	22.5"	3750	4896		480	120/277		
	21	42"	71"	22.5"	42"	71"	22.5"	4375	5712					
		N	lote: (*) Repr	esents optiona	al smaller cab	inet for 4.7 to 14	KW with dimens	ions 40" 48"H	36"D. Please con	tact us for mor	e informatio	n.		

The Defender 1 provides the simplicity and reliability that is critical when providing an alternative source of power to any environment. Easy installation ..."simplicity"...connect the DE1 to the emergency circuit(s) and everything is backed up..."reliability"...during a power outage. All lighting connected to the DE1 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 1 from DSPM ensures.

ORDERING INFORMATION

Choose the bold face catalog nomenclature that best suites your needs.

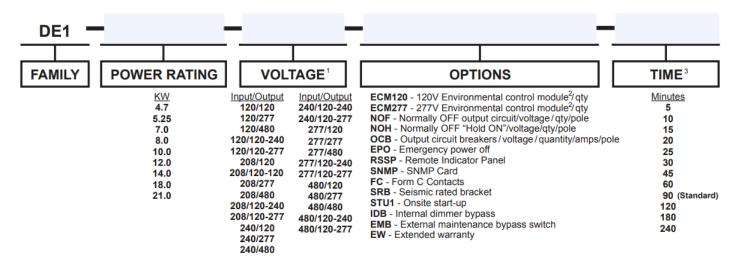
Write them on the appropriate line. Order accessories as separate catalog number.

Example:

DE1 - 8.0 - 120/277 - ECM277/3 OCB/277/3/20/1 - 30

Description of example:

(8.0 KW, 120 Voltage In, 277 Voltage Out, 3 277V Environmental Control Modules, 3 Output 277 Voltage Circuit Breakers at 20amps, 2 pole, 30 minute run time)



NOTES:

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

Specifications subject to change without notice.

