

## DEFENDER 3

**3 KW - 120 KW Three Phase Uninterrupted Emergency Lighting and Power Systems**



### SPECIFICATIONS

The Defender 3 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

- 3 KW - 125 KW (or 3,000 Watts - 125,000 Watts) three phase output unit uses the latest DSP/PWM technology to provide the most advanced performance and reliability features

### INPUT

- 208Y/120, 480Y/277, 208 or 480VAC input 60Hz

### OUTPUT

- 208Y/120 or 480Y/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 **TEMPERATURE COMPENSATED** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

### 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

### ORDERING INFORMATION:

DE3				
FAMILY	POWER RATING	VOLTAGE <sup>1</sup>	OPTIONS	TIME <sup>3</sup>
	<u>KW</u>	<u>Input - Output</u>	<u>ECM120</u> - 120V Environmental control module <sup>2</sup> /qty	<u>Minutes</u>
	3.0	208Y/120 - 208Y/120	<u>ECM277</u> - 277V Environmental control module <sup>2</sup> /qty	5
	4.5	208Y/120 - 480Y/277	<u>NOF</u> - Normally OFF output circuit/voltage / qty/pole	10
	6.0	480Y/277 - 208Y/120	<u>NOH</u> - Normally OFF "Hold ON"/voltage/qty/pole	15
	8.0	480Y/277 - 480Y/277	<u>OCB</u> - Output circuit breakers / voltage / quantity/amps/pole	20
	10.0	208 - 208Y/120	<u>EPO</u> - Emergency power off	25
	12.0	208 - 480Y/277	<u>RSSP</u> - Remote Indicator Panel	30
	16.0	480 - 208Y/120	<u>SNMP</u> - SNMP Card	45
	20.0	480 - 480Y/277	<u>FC</u> - Form C Contacts	60
	24.0		<u>SRB</u> - Seismic rated bracket	90 (Standard)
	30.0		<u>STU3</u> - Onsite start-up	120
	40.0		<u>IDB</u> - Internal dimmer bypass	180
	50.0		* <u>EMB</u> - External maintenance bypass switch	240
	60.0		<u>EW</u> - Extended warranty	
	80.0			
	100.0			
	125.0			

Defender 3 Series	Power Rating	UPS			Battery				Weight (combined)	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals
		Cabinet Dimensions			Cabinet Dimensions							Input	Output		
DE3	KVA/KW	W	H	D	No.	W	H	D	(lbs)	BTU's	Sealed, Maintenance free (AGM) lead calcium	<i>Select</i> 208Y/120VAC, 480Y/277VAC, 208 or 480VAC (Consult factory for others)	Input and output circuit breakers standard	UL924 UL1778 NFPA 101 NFPA 70 NEC	
	3	42"	71"	22.5"	not required				980	816					
	4.5	42"	71"	22.5"	not required				1100	1224					
	6	42"	71"	22.5"	not required				1350	1632					
	8	42"	71"	22.5"	1	42"	71"	22.5"	1700	2176					
	10	42"	71"	22.5"	1	42"	71"	22.5"	2250	2720					
	12	42"	71"	22.5"	1	42"	71"	22.5"	2700	3264					
	16	42"	71"	22.5"	1	42"	71"	22.5"	2950	4352					
	20	42"	71"	22.5"	1	42"	"	22.5"	3800	5440					
	24	42"	71"	22.5"	2	42"	71"	22.5"	4350	6528					
	30	42"	71"	22.5"	2	42"	71"	22.5"	5150	8160					
	40	42"	71"	22.5"	3	42"	71"	22.5"	6790	10880					
	50	42"	71"	22.5"	4	42"	71"	22.5"	8384	13600					
	60	50"	71"	32"	Consult Factory				16320						
	80	50"	71"	32"	Consult Factory				21760						
100/80	50"	71"	32"	Consult Factory				27200							
150/120	50"	71"	32"	Consult Factory				34000							

## 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

## CABINET

- Modular design enables flexible installation
- Forced air cooling for maximum reliability
- All systems are self contained and require external battery cabinet(s)
- NEMA 3R rated

## INSTALLATION

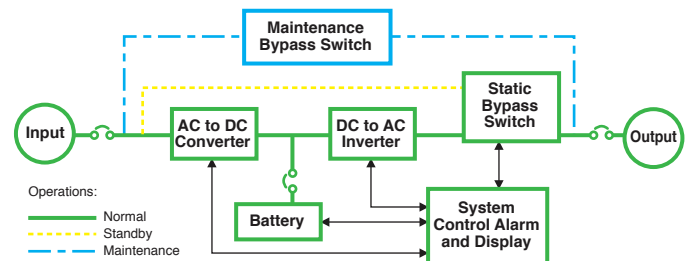
- Modular design and small footprint allow easy installation in electrical closet or other convenient locations
- Phone assisted factory start-up standard for all systems
- Extended warranty available

## 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

## CODES

- UL 924, UL 1778, meets NFPA 101, NFPA 70, NEC and OSHA standards
- Cities of Chicago, Los Angeles and New York approved
- Complies with the Buy American Act



## 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

## 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