

**Job Name:** \_\_\_\_\_

**Type:** \_\_\_\_\_

**Part #:** \_\_\_\_\_

**Notes:** \_\_\_\_\_



## 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

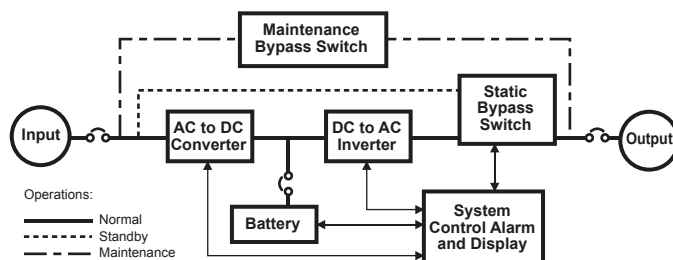
- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year prorated warranty
- DSP/PWM Smart Battery Monitoring System is **TEMPERATURE COMPENSATED** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

### 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



**3 KW - 125 KW**

**Three Phase**

**Uninterrupted  
Emergency  
Lighting and  
Power  
Systems**



### PROTECTION

- Provides overload, surge and undercurrent protection using DSP/PWM technology and Envoy *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 Envoy *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

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

### 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

- Envoy 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 Envoy phone assisted start-up
- 5-Year powertrain warranty
- Maintenance contracts available

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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		
	KVA/KW	W	H	D	No.	W	H	D	(lbs)	BTU's					
DE3	3	42"	71"	22.5"	not required				980	816	Sealed, Maintenance free (AGM) lead calcium	Input and output circuit breakers standard	UL924 UL1778 NFFA 101 NFFA 70 NEC		
	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"	71"	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	50"	71"	32"	Consult Factory				27200						
125	50"	71"	32"	Consult Factory				34000							

The Defender 3 provides the simplicity and reliability that is critical when providing an alternative source of power to any environment. Easy installation ... "simplicity" ... connect the DE3 to the emergency circuit(s) and everything is backed up ... "reliability" ... during a power outage. All lighting connected to the DE3 will simply continue to operate at "full light output". Envoy 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 3 from **Envoy** 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:

**DE3 - 12.0 - 208Y/120 208Y/120- EMB OCB/120/3/20/1**

Description of example:

(12.0 KW, 208Y/120 Voltage In, 208Y/120 Voltage Out, External Maintenance Bypass Switch, 3 Output 120 Voltage Circuit Breakers at 20amps, 2 pole)

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

### 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.