



SPECIFICATIONS

The LSL Defender Mini 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

- 350 Watts - 2000 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

OUTPUT

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

BATTERIES

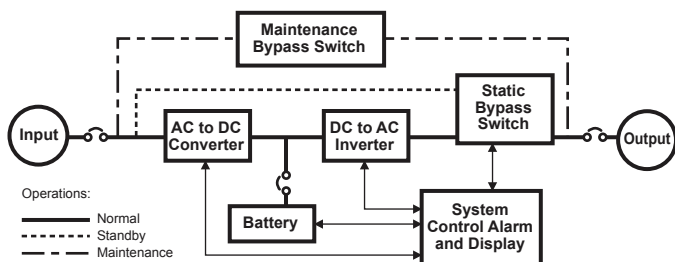
- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year prorated warranty
- Smart Battery Monitoring System is **TEMPERATURE COMPENSATED** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

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, UL1778, meets NFPA 101, NFPA 70, NEC and OSHA standards
- Cities of Chicago and New York approved
- Complies with the Buy American Act



350 W - 2000 W

Single Phase

Uninterrupted Emergency Lighting and Power Systems



PROTECTION

- Provides overload, surge and undercurrent protection using technology and The *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

- Technology and The *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

- Space saving small footprint
- Modular design enables flexible installation

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

- LSL 24/7 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 MFG phone assisted start-up
- 5-Year powertrain warranty
- Maintenance contracts available



Job Name: _____

Type: _____

Part #: _____

Notes: _____

Mini Series	Power Rating	UPS			Weight	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals
		Cabinet Dimensions						Input	Output		
LSDMINI	VA/W	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
	350	24"	26"	16"	340	95.2		120,	120,		
	525	24"	26"	16"	340	142.8		208,	277,		
	700	24"	26"	16"	370	190.4		240,	480,		
	750	24"	26"	16"	370	204		277	120/240		
	875	24"	26"	16"	370	238		or	or		
	1050	24"	26"	16"	440	285.6		480	120/277		
	1400	24"	26"	16"	460	380.8					
2000	24"	26"	16"	600	544						

The LSL *Defender Mini* provides the simplicity and reliability that is critical when providing an alternative source of power to any environment. Easy installation ...”simplicity”...connect the Mini to the emergency circuit(s) and everything is backed up...”reliability”...during a power outage. All lighting connected to the Mini will simply continue to operate at “full light output”. The 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 Mini from LSL 24/7 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: **LSDMINI - 1050 - 208/120 - OCB/120/3/20/1 NOF/120/1 - 90**

Description of example: (1050 Watt, 208 Voltage In, 120 Voltage Out, 3 Output 120 Voltage Circuit Breakers at 20amps, 2 pole, 1 Normally Off 120 Volt Output Circuit, 90 minute run time)

FAMILY	POWER RATING	VOLTAGE ¹		OPTIONS	TIME ³
	VA/W	Input/Output	Input/Output	ECM120 - 120V Environmental control module ² /qty	Minutes
	350	120/120	240/120-240	ECM277 - 277V Environmental control module ² /qty	5
	525	120/277	240/120-277	NOF - Normally OFF output circuit/voltage / qty/pole	10
	700	120/480	277/120	NOH - Normally OFF “Hold ON”/voltage/qty/pole	15
	750	120/120-240	277/277	OCB - Output circuit breakers / voltage / quantity/amps/pole	20
	875	120/120-277	277/480	EPO - Emergency power off	25
	1050	208/120	277/120-240	RSSP - Remote Indicator Panel	30
	1400	208/277	277/120-277	SNMP - SNMP Card	45
	2000	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	WB - Wall mounted bracket	120
		240/120	480/120-240	STUM - Onsite start-up	180
		240/277	480/120-277	IDB - Internal dimmer bypass	180
		240/480		EMB - External maintenance bypass switch	240
				EW - Extended warranty	240

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.

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