

# ETERNALIGHT 1 HARSH

## SPECIFICATIONS

*The Eternalight Harsh 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 an outdoor environment.*

### POWER RATING

- 0.075 KW - 21 KW (or 75 Watts - 21,000 Watts) single phase output unit uses the latest DSP/PWM technology to provide the most advanced performance and reliability features

### INPUT

- 120V, 120/120V, 240V, 277V or 480V input 60Hz

### OUTPUT

- 120V, 208V, 240V, 277V, 480V, 120/240 or 120/277VAC  
True "on-line" design is  $\geq 92\%$  efficient at 100% linear load

### BATTERIES

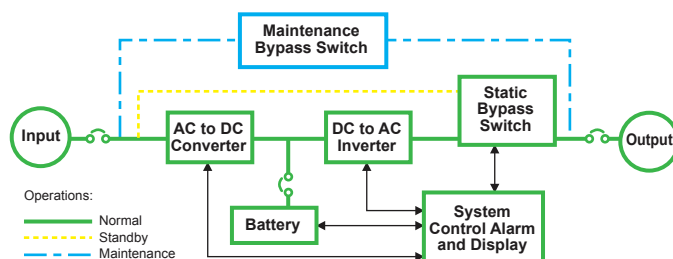
- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year prorated warranty
- DSP/PWM Smart Battery Monitoring System is **TEMPERATURE COMPENSATED** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

### 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

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



**0.075 KW - 21 KW**

**Single Phase**

**Uninterrupted  
Emergency  
Lighting and  
Power  
Systems**



### 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

### 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

### NEMA 4X or 12 CABINET

- Modular design enables flexible installation
- Forced air cooling for maximum reliability
- Systems up to 12 KW are self contained; larger systems require external battery cabinet(s)

### INSTALLATION

- Modular design and small footprint allow easy installation in an outdoor environment
- Phone assisted factory start-up standard for all systems
- Extended warranty 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

### 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

# ETERNALIGHT HARSH



Eternalight Harsh 1	Power Rating	UPS			Battery			Weight (combined)	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals
		Cabinet Dimensions			Cabinet Dimensions						Input	Output		
OTH1 (Consult factory for others)	KVA/KW	W	H	D	W	H	D	(lbs)	BTU's	Sealed, Maintenance free (AGM) lead calcium	Select	Select	Input and output circuit breakers standard	UL924 UL1778 NFPA 101 NFPA 70 NEC
	0.35	41"	52"	36"	not required			950	95.2					
	0.525	41"	52"	36"	not required			1140	142.8					
	0.7	41"	52"	36"	not required			1170	190.4					
	0.875	41"	52"	36"	not required			1190	238					
	1.05	41"	52"	36"	not required			1220	285.6					
	1.4	41"	52"	36"	not required			1350	380.8					
	2.0	41"	52"	36"	not required			1410	544					
	2.4	41"	52"	36"	not required			1460	652.8					
	2.6	41"	52"	36"	not required			1620	707.2					
	3.0	41"	52"	36"	not required			1730	816					
	3.4	41"	52"	36"	not required			1780	924.8					
	3.8	41"	52"	36"	not required			1830	1033.6					
	4.2	41"	52"	36"	not required			1980	1142.4					
	4.7	41"	73"	36"	not required			2350	1278.4					
	5.25	41"	72"	32"	not required			2350	1428					
	7.0	41"	73"	36"	not required			2600	1904					
	8.0	41"	73"	36"	not required			2600	2176					
10.0	41"	73"	36"	not required			3050	2720						
12.0	41"	73"	36"	not required			3050	3264						
14.0	41"	73"	36"	41"	52"	36"	3700	3808						
18.0	41"	73"	36"	41"	52"	36"	4900	4896						
21.0	41"	73"	36"	41"	52"	36"	5300	5712						

## 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:

**OTH1 - 8.0 - 120/277 - ECM277/3 OCB/277/3/20/1 - 180**

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, 180 minute run time)

OTH1													
FAMILY	POWER RATING		VOLTAGE <sup>1</sup>			OPTIONS				TIME <sup>3</sup>			
	KW		Input/Output			ECM120 - 120V Environmental control module <sup>2</sup> /qty				Minutes			
	0.075	3.0	120/120			ECM277 - 277V Environmental control module <sup>2</sup> /qty				5			
	0.1	3.4	120/277			NOF - Normally OFF output circuit/voltage / qty/pole				10			
	0.125	3.8	120/480			NOH - Normally OFF "Hold ON"/voltage/qty/pole				15			
	0.2	4.2	120/120-240			OCB - Output circuit breakers / voltage / quantity/amps/pole				20			
	0.3	4.7	120/120-277			EPO - Emergency power off				25			
	0.35	5.25	208/120			RSSP - Remote Indicator Panel				30			
	0.525	7.0	208/277			SNMP - SNMP Card				45			
	0.7	8.0	208/480			FC - Form C Contacts				60			
	0.875	10.0	208/120-240			STU1 - Onsite start-up				90 (Standard)			
	1.05	12.0	208/120-277			IDB - Internal dimmer bypass				120			
	1.4	14.0	240/120			EMB - External maintenance bypass switch				180			
	2.0	18.0	240/277			HTR - Heater				240			
	2.4	21.0	240/480			EW - Extended warranty							
	2.6		240/120-240										
			240/120-277										

### 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.

**For more information and pricing contact:**



**Thad Everson**

(608)999-0039

[teverson@facilitygateway.com](mailto:teverson@facilitygateway.com)

**Frank Horner**

(608)692-9236

[fhorne@facilitygateway.com](mailto:fhorne@facilitygateway.com)