

# ILLUMINATOR EM

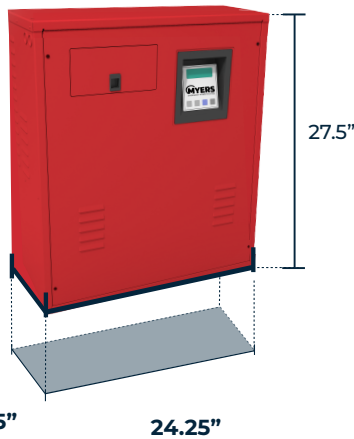
## Single Phase Emergency Lighting Inverter



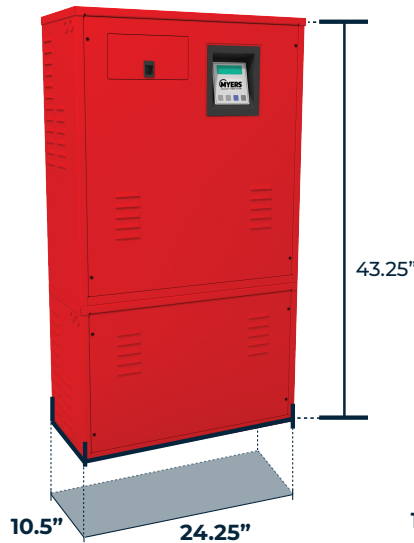
Single Phase Systems 1.0kVA/KW to 2.8kVA/KW  
 Designed with Industry Leading Compact Footprint for  
 All Lighting Loads (including HID/LED)

**SAME SIZE FOOTPRINT  
 FOR EACH MODEL!**

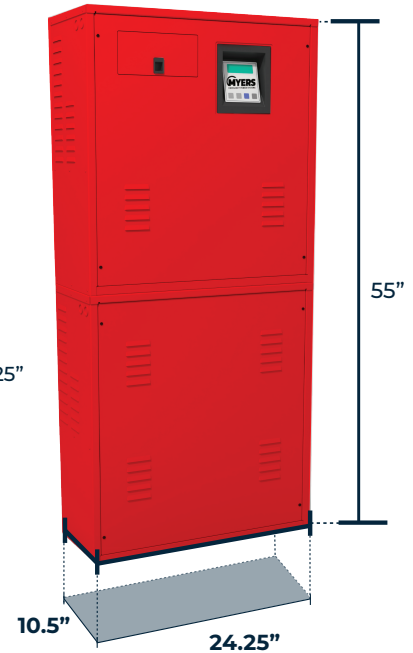
EM-1 | 1000VA/W




EM-2 | 1600VA/W  
 EM-3 | 2200VA/W



EM-4 | 2800VA/W



### STANDARD FEATURES

- EFFICIENT:** 98% Typical Efficiency
- SMART:** Automatic Event, Test, and Alarm Log  
 User Programmable w/ Password Protection  
 Input Circuit Breaker  
 One Output Circuit Breaker  
 RS-232 Communication Port
- COMPACT:** Same compact footprint on all models
- FAST:** No Break 2ms Transfer Time
- CERTIFIED:**  UL 924 Listed  
 NFPA 101 Self Testing and Data Logging  
 65 KAIC Input Rating  
 Code Compliant : 90 Min. Runtime

### OPTIONAL FEATURES

(see page 2 for complete list of available options)

- ENHANCED COMMUNICATIONS:**  
 Expanded Building Management Protocols  
 including BACnet, Modbus, CLI &  
NEW IoT 2.0 Connect Cloud Software
- MAINTENANCE BYPASS:** Internal or External
- REMOTE PANELS:** Summary Alarm
- BREAKERS:** Output Circuit Breakers
- CONTACTS:** Status Monitoring & Summary Form C
- FACTORY STARTUP, TRAINING, & EXTENDED WARRANTY**
- NORMALLY OFF OUTPUT w/ VARIABLE TIME DELAY**
- OUTPUT TRIP ALARMS**
- MOUNTS:** Wall Bracket, Floor Brackets, or Seismic

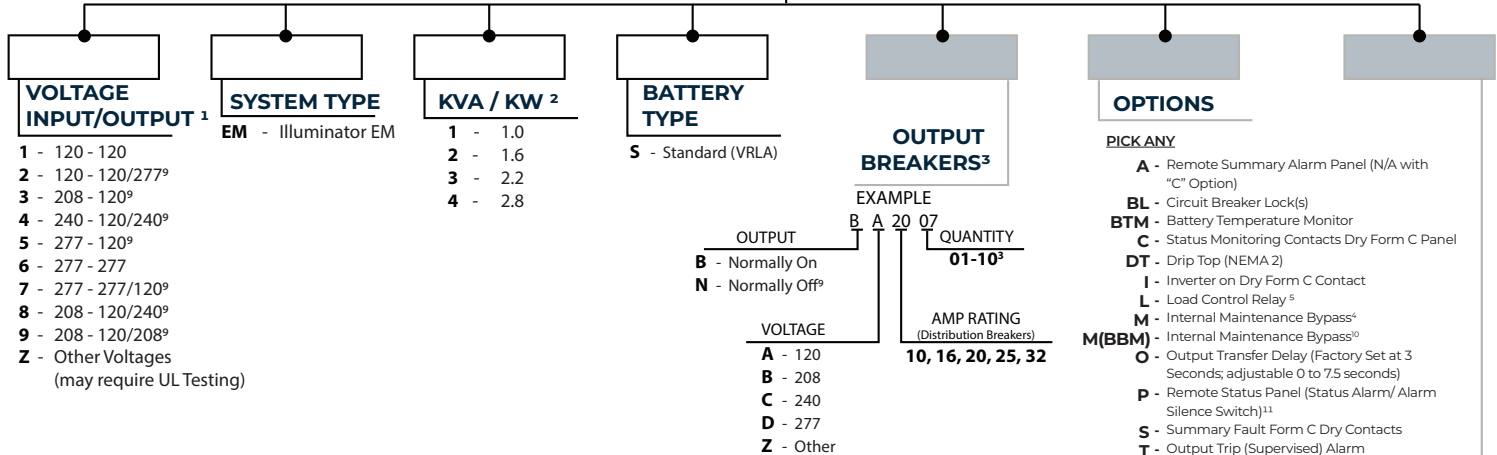
### SPECIFICATIONS

- Input 120 or 277VAC 1 Phase 2 Wire Plus Ground\*
- Output 120 or 277VAC 1 Phase 2 Wire Plus Ground\*
- Output Load Power Factor .5 Lag to .5 Lead
- Output Voltage Distortion Less than 3% THD for Linear Loads
- Forced Air Cooling Only Emergency Operations; No Filters Required
- Electronic and Magnetic Ballast Compatible
- Generator Compatibility
- Custom Voltages Available

\* Other Voltages Available

# ORDERING GUIDE

Example Model Number:  
1-EM-4-S-BA2007-T-S-M-2YW



- Only single phase voltages available.
- KVA = KW
- Unless output circuit breakers are specified, a single output breaker will be supplied with each unit and the current rating will vary based on the output power and voltage rating of the unit. Maximum specified output breakers available: 10 unsupervised (1-pole), 6 supervised (1-pole). A 2-pole breaker occupies 2 positions.
- Maintenance bypass switch is a "make before break".
- Contact factory for load control applications.
- One year warranty is standard.
- 15 minute retransfer time delay of normally off circuit after return of utility.
- Circuit breaker protection provided.
- Enclosure height may increase. Contact factory.
- Maintenance Bypass is "break before make".
- Remote Status Panel requires "C" Option (Status Monitoring Dry Form C Contacts Alarm Panel).

**ACCESSORIES**

- EMBP - External Maintenance Bypass Switch<sup>A,9</sup>
- SPARES - Spare Fuses & Circuit Boards
- SPAREF - Spare Fuse Kit

A) Cannot purchase External Maintenance Bypass Switch with Internal Output Breaker options.

= Required feature for part number.  
 = Optional feature. Not required for part number.

## WARRANTY & ONSITE SERVICES<sup>6</sup>

- 2YW - Start Up & Same Day Training
- 2YWT - Start Up, Same Day Training and Full Run Test
- 5YP - 5-Year Preventative Maintenance Plan
- 5YW - 5-Year Extended Electronics Warranty
- TR - Training (If Required On Day)

## DIMENSIONS

Electronics Module									Batteries 90 Minutes @ Full Load				
Model Number	Power Rating (VA / W)	Efficiency (Typical %)	Audible Noise (db)	Heat Loss (BTU)	Cabinet Dimensions				90 Minutes Batteries (lbs / kg)	Number of Batteries	Voltage (VDC)	Current (amps)	Total System Weight (lbs / kg)
					Width (in / cm)	Height (in / cm)	Depth (in / cm)	Weight (lbs / kg)					
EM-1	1000	98	45	70	24.25 / 61.6	27.5 / 69.9	10.5 / 26.67	121 / 55	160 / 73	4	48	26	281 / 128
EM-2	1600	98	45	110	24.25 / 61.6	43.25 / 109.86	10.5 / 26.67	165 / 75	240 / 109	6	72	27	405 / 184
EM-3	2200	98	45	150	24.25 / 61.6	43.25 / 109.86	10.5 / 26.67	174 / 79	320 / 146	8	96	27	494 / 225
EM-4	2800	98	45	190	24.25 / 61.6	55 / 139.7	10.5 / 26.67	203 / 92	400 / 182	10	120	27	603 / 274