

ILLUMINATOR EM

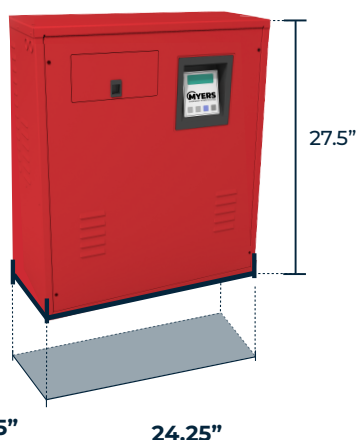
Single Phase Emergency Lighting Inverter



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

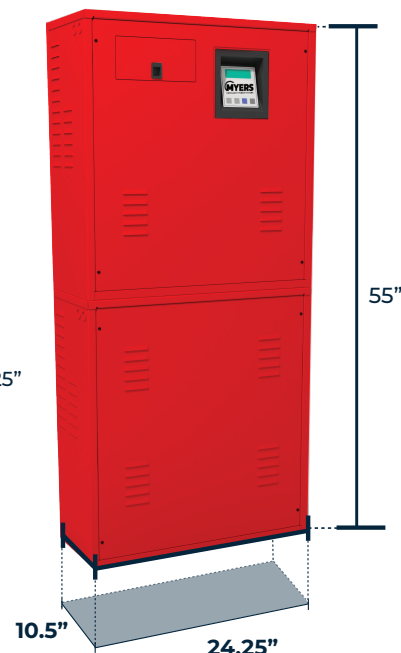


EM-2 | 1600VA/W

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

VOLTAGE INPUT/OUTPUT¹

1 - 120 - 120
2 - 120 - 120/277⁹
3 - 208 - 120⁹
4 - 240 - 120/240⁹
5 - 277 - 120⁹
6 - 277 - 277
7 - 277 - 277/120⁹
8 - 208 - 120/240⁹
9 - 208 - 120/208⁹
Z - Other Voltages
 (may require UL Testing)

SYSTEM TYPE

EM - Illuminator EM

KVA / KW²

1 - 1.0
2 - 1.6
3 - 2.2
4 - 2.8

BATTERY TYPE

S - Standard (VRLA)

OUTPUT BREAKERS³

EXAMPLE
 B A 20 07
 QUANTITY
01-10³

OUTPUT
B - Normally On
N - Normally Off⁹

VOLTAGE
A - 120
B - 208
C - 240
D - 277
Z - Other

AMP RATING
 (Distribution Breakers)
10, 16, 20, 25, 32

OPTIONS

PICK ANY

A - Remote Summary Alarm Panel (N/A with "C" Option)
BL - Circuit Breaker Lock(s)
BTM - Battery Temperature Monitor
C - Status Monitoring Contacts Dry Form C Panel
DT - Drip Top (NEMA 2)
I - Inverter on Dry Form C Contact
L - Load Control Relay⁵
M - Internal Maintenance Bypass⁴
M - Internal Maintenance Bypass¹⁰
M(BB) - Output Transfer Delay (Factory Set at 3 Seconds; adjustable 0 to 7.5 seconds)
P - Remote Status Panel (Status Alarm/ Alarm Silence Switch)¹¹
S - Summary Fault Form C Dry Contacts
T - Output Trip (Supervised) Alarm
V - Time Delay 15 Minutes⁷
Y - Battery Strapping
ZM - Zone Monitoring (Qty must be Specified)

PICK ONLY 1

BAC - BACnet(MSTP Only)
BIP - BACnet IP
IOT - IoT Inverter Connect Cloud Communications
MIP - Modbus TCP/IP
MOD - Modbus RTU
SEA - Serial to Ethernet Adapter

MOUNTING OPTIONS PICK 1:

(BLANK) - Standard Wall
B - Floor Mount Bracket
 (Adds 4" to total system height)
W - Wall Mount Bracket
Z - Seismic / Raised Floor
 (Adds 4" to total system height)

1. Only single phase voltages available.
 2. KVA = KW
 3. 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.
 4. Maintenance bypass switch is a "make before break".
 5. Contact factory for load control applications.
 6. One year warranty is standard.
 7. 15 minute retransfer time delay of normally off circuit after return of utility.
 8. Circuit breaker protection provided.
 9. Enclosure height may increase. Contact factory.
 10. Maintenance Bypass is "break before make".
 11. Remote Status Panel requires "C" Option (Status Monitoring Dry Form C Contacts Alarm Panel).

ACCESSORIES

EMBP - External Maintenance Bypass Switch^{A,9}
 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 SERVICES⁶

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