

# EM Series

## Inverter Power System



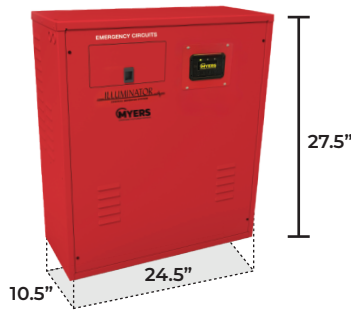
## SINGLE PHASE SYSTEMS

### 1.0kVA to 2.8kVA

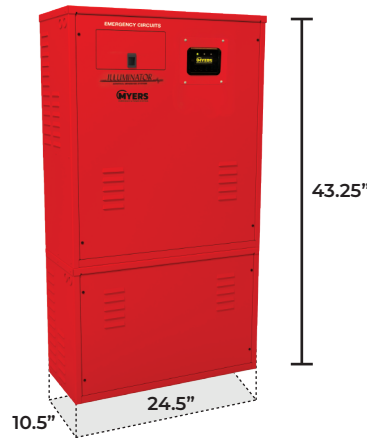
Designed with Industry Leading  
Compact Footprint



**SAME SIZE FOOTPRINT  
FOR EACH MODEL**  
10.5" D x 24.25" W



**EM-1 (1.0kVA)**



**EM-2 (1.6kVA) & EM-3 (2.2kVA)**



**EM-4 (2.8kVA)**

### STANDARD FEATURES

- 98% Efficient Typical
- Automatic Event, Test, and Alarm Log
- User Programmable With Password Protection
- Input Circuit Breaker
- One Output Circuit Breaker
- RS232 Communications Port
- Space-Saving Design
- No Break 2ms Transfer Time
- NFPA 101 Self Testing and Data Logging
- Code Compliant : 90 Min. Runtime
- 65 KAIC Input Rating
- NEMA Type 1 Cabinet

### OPTIONAL FEATURES

- Enhanced Communications
  - Expanded Building Management Protocols
  - BACnet or Modbus Communications Interface
  - NEW IoT Connect Cloud Software
- Internal or External Maintenance Bypass
- Summary Alarm
- Output Circuit Breakers
- Status Monitoring & Summary Form C Contacts
- Normally Off Output With Variable Time Delay
- Output Trip Alarms
- Wall Bracket, Floor Bracket, or Seismic
- Factory Startup & Training
- Extended Maintenance & Factory Warranty

### SPECIFICATIONS

- Input Voltage: 120 or 277VAC | 1-Phase 2-Wire Plus Ground
- Output Voltage: 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 During Emergency Operation; No Filters Required
- Compatible with All Lighting and Motor Loads
- Compatible With Generators (10x Inverter Size)
- Custom Voltage Available (Contact Factory)

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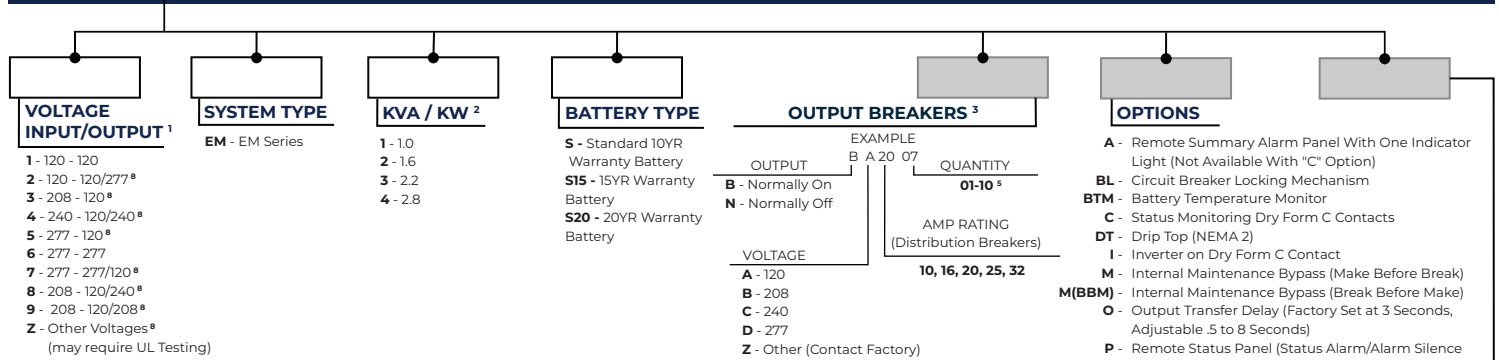
## Single-Phase Inverter Power System

### 1.0kVA to 2.8kVA



## ORDERING GUIDE

EXAMPLE MODEL # 1-EM-4-S-BA2006-T-S-M-2YW



☐ = Required feature for part number.

☐ = Optional feature. Not required for part number.

### ACCESSORIES

EMBP - External Maintenance Bypass Switch<sup>A</sup>

SPARES - Spare Fuses & Circuit Boards

SPAREF - Spare Fuses

A) External Maintenance Bypass Switch is not available with Internal Distribution Breakers.

- Only single phase voltages available.
- KVA= KW
- If no 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.
- BIP/MIP/IOT: Options increase cabinet height by 8"
- Maximum specified output breakers available: 10 unsupervised (1-pole), or 6 supervised (1-pole). A 2-pole breaker occupies 2 positions.
- One year warranty is standard.
- Variable time delay of normally off circuit after return of utility up to 15 minutes.  
For systems with voltages other than 120 in/out or 277 in/out system cabinet heights will vary. Contact factory.

### PICK ONLY 1:

- BAC - BACnet
- BIP<sup>4</sup> - BACnet IP
- IOT<sup>4</sup> - IoT Inverter Connect Cloud Communications
- MIP<sup>4</sup> - Modbus TCP/IP
- MOD - Modbus RTU
- SEA - Serial to Ethernet Adapter

### MOUNTING OPTIONS (PICK 1):

- (BLANK) - Standard Wall
- F - Floor Mount Bracket (Adds 4" to Total System Height)
- W - Wall Mount Bracket
- Z - Seismic / Raised Floor (Includes Y Option)  
(Adds 4" to Total System Height)

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

- 2YW - Start Up & Same Day Training  
(Increases Standard 1 Year Electronics Warranty to 2 years)
- 2YWT - Start Up, Same Day Training and Full Run Test  
(Increases Standard 1 Year Electronics Warranty to 2 years)
- 5YP - 5-Year Maintenance Plan
- 5YW - 5-Year Extended Electronics Warranty  
(Includes 3 Years of Extended Electronics Warranty When Combined With 2YW)
- TR - Training (if Required on Day Other Than Start Up)

## DIMENSIONS

| Electronics Module   |                       |                              |                    |                 |                     |                  |                 |              | Batteries 90 Minutes @ Full Load |                     |               |                | Total System Weight (lbs / kg) |
|----------------------|-----------------------|------------------------------|--------------------|-----------------|---------------------|------------------|-----------------|--------------|----------------------------------|---------------------|---------------|----------------|--------------------------------|
| Partial Model Number | Power Rating (VA / W) | Efficiency (Typical Percent) | Audible Noise (db) | Heat Loss (BTU) | Cabinet Dimensions* |                  |                 |              | 90 Minutes Batteries (lbs / kg)  | Number of Batteries | Voltage (VDC) | Current (amps) |                                |
|                      |                       |                              |                    |                 | Width (in / cm)     | Height (in / cm) | Depth (in / cm) | Weight (lbs) |                                  |                     |               |                |                                |
| 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                      |

\*For systems with voltages other than 120 in/out or 277 in/out system cabinet heights will vary. Contact factory.