

# E Series

## Inverter Power System



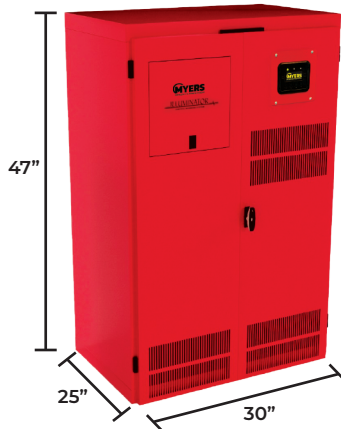
## SINGLE PHASE SYSTEMS

### 1.5kVA to 16.7kVA

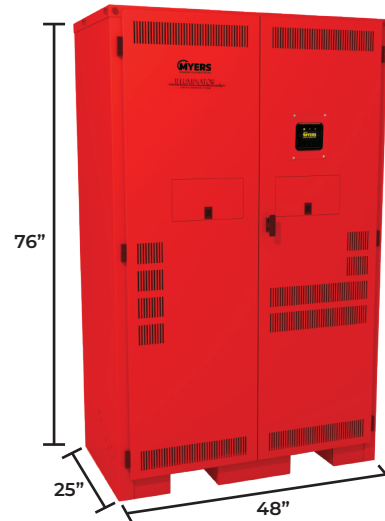
For All Lighting & Motor Loads



Models  
1.5kVA to  
5.0kVA



Models  
6.0kVA to  
16.7kVA



### STANDARD FEATURES

- 98% Efficient Typical
- Automatic Event, Test, and Alarm Log
- User Programmable With Password Protection
- Input 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 Time Delay
- Output Trip Alarms
- 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
- Custom Voltage Available (Contact Factory)
- Forced Air Cooling Only During Emergency Operation; No Filters Required
- Compatible with All Lighting and Motor Loads
- Generator Compatibility
- 90 Minute Runtime Standard; Extended Runtimes Available upon Request
- Inverter Operating Temperature 32°F to 104°F (0°C to 40°C)
- Battery Operating Temperature 68°F to 86°F (20°C to 30°C) per UL 924 Specifications

# E Series

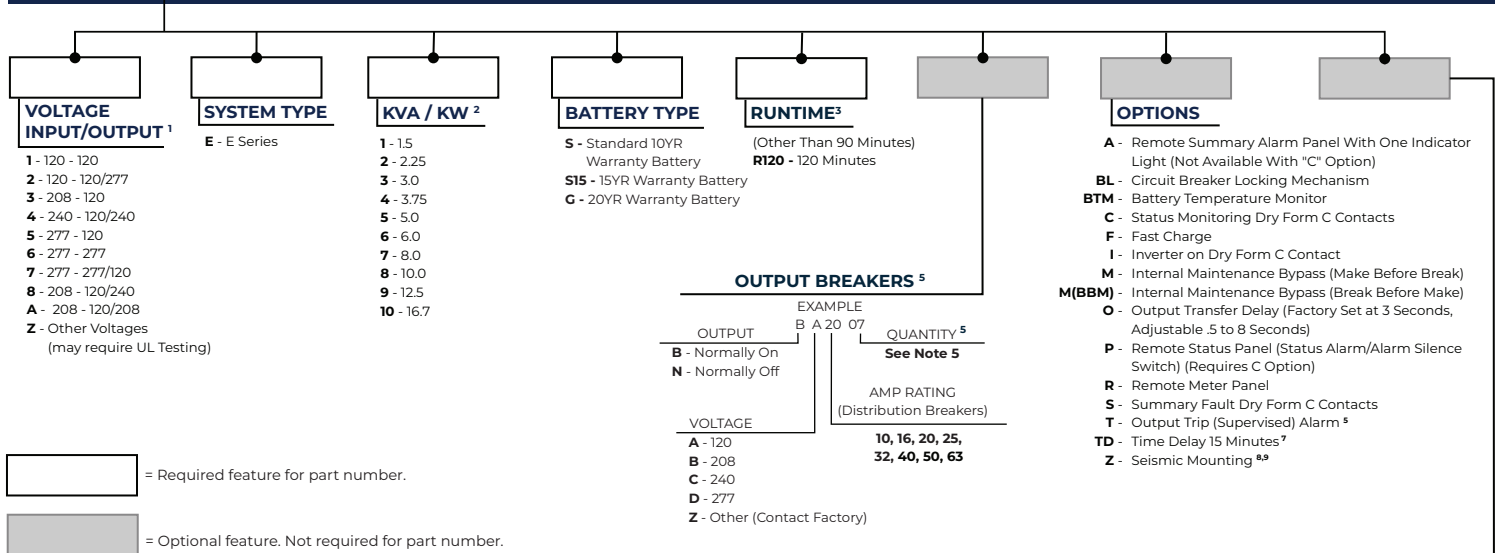
## Single-Phase Inverter Power System

### 1.5kVA to 16.7kVA



## ORDERING GUIDE

EXAMPLE MODEL # 1-E-4-S-BA2007-T-S-M-2YW



- Only single phase voltages available.
- KVA= KW
- Standard battery runtime is 90 minutes. Contact factory for other runtimes. 120-minute run time is not available for 16.7kVA systems.
- Normally off loads cannot exceed 20% of total kVA rating with any combination of HID loads.
- Maximum output breakers available: 12 unsupervised (1-pole), or 8 supervised (1-pole) for 1.5kVA-5kVA; 24 unsupervised (1-pole), or 18 supervised (1-pole) for 6kVA-16.7kVA; Breakers provided are 20 Amps unless specified otherwise. A 2-pole breaker occupies 2 positions. Additional output breakers available on 1.5kVA-5kVA units with optional top mount enclosure. Contact factory for details.
- One year warranty is standard.
- Time delay of normally off circuit will stay activated 15 minutes after return of utility.
- Anchorage based on calculations. For systems requiring OSHPD/Withstand testing, see Illuminator E-H.
- Seismic Mounting increases footprint from that noted above. Contact factory for detailed seismic mounting drawing.

## 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

Alternate runtimes may affect cabinet size - contact factory.

| Electronics Module   |                        |                              |                    |                 |                     |                  |                 |                   | Batteries 90 Minutes @ Full Load |                     |               |                | Total System Weight (lbs / kg) |
|----------------------|------------------------|------------------------------|--------------------|-----------------|---------------------|------------------|-----------------|-------------------|----------------------------------|---------------------|---------------|----------------|--------------------------------|
| Partial Model Number | Power Rating (KVA / 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 / kg) |                                  |                     |               |                |                                |
| E-1-S                | 1.5                    | 98                           | 45                 | 102             | 30 / 77             | 47 / 119         | 25 / 64         | 215 / 98          | 296 / 135                        | 4                   | 48            | 39             | 511 / 230                      |
| E-2-S                | 2.25                   | 98                           | 45                 | 153             | 30 / 77             | 47 / 119         | 25 / 64         | 230 / 105         | 444 / 200                        | 6                   | 72            | 38             | 679 / 306                      |
| E-3-S                | 3.0                    | 98                           | 45                 | 204             | 30 / 77             | 47 / 119         | 25 / 64         | 235 / 107         | 592 / 266                        | 8                   | 96            | 38             | 827 / 372                      |
| E-4-S                | 3.75                   | 98                           | 45                 | 255             | 30 / 77             | 47 / 119         | 25 / 64         | 240 / 109         | 740 / 330                        | 10                  | 120           | 37             | 980 / 441                      |
| E-5-S                | 5.0                    | 98                           | 45                 | 340             | 30 / 77             | 47 / 119         | 25 / 64         | 280 / 128         | 888 / 400                        | 12                  | 144           | 40             | 1168 / 525                     |
| E-6-S                | 6.0                    | 98                           | 45                 | 408             | 48 / 122            | 76 / 193         | 25 / 64         | 605 / 272         | 1110 / 500                       | 15                  | 180           | 40             | 1715 / 772                     |
| E-7-S                | 8.0                    | 98                           | 45                 | 544             | 48 / 122            | 76 / 193         | 25 / 64         | 640 / 288         | 1480 / 666                       | 20                  | 240           | 39             | 2120 / 954                     |
| E-8-S                | 10.0                   | 98                           | 45                 | 680             | 48 / 122            | 76 / 193         | 25 / 64         | 785 / 353         | 1776 / 800                       | 24                  | 144           | 82             | 2561 / 1153                    |
| E-9-S                | 12.5                   | 98                           | 45                 | 860             | 48 / 122            | 76 / 193         | 25 / 64         | 805 / 362         | 2220 / 999                       | 30                  | 180           | 82             | 3025 / 1361                    |
| E-10-S               | 16.7                   | 98                           | 45                 | 1135            | 48 / 122            | 76 / 193         | 25 / 64         | 885 / 398         | 2960 / 1332                      | 40                  | 240           | 80             | 3845 / 1730                    |