



CABINET DEPICTED IS 2.2 KVA. DIMENSIONS SHOWN ON CHART, PAGE 2.

## Designed with Industry Leading Compact Footprint

### Modular Design

SAME SIZE FOOTPRINT FOR EACH MODEL

**10.5" D × 24.25" W**UL 924 Listed  
Self-Testing  
Self-DiagnosticBuild America  
Buy America  
Act CompliantBuy  
American Act  
CompliantTrade  
Agreements  
Act Compliant

### 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 2 ms 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 277 VAC   1-Phase 2-Wire Plus Ground                 |
| OUTPUT VOLTAGE    | 120 or 277 VAC   1-Phase 2-Wire Plus Ground                 |
| LOAD POWER FACTOR | Output .5 Lag to .5 Lead                                    |
| OUTPUT DISTORTION | Output Voltage Distortion Less Than 3% THD for Linear Loads |

|                |                                                                         |
|----------------|-------------------------------------------------------------------------|
| COOLING        | Forced Air Cooling Only During Emergency Operation; No Filters Required |
| LOAD TYPES     | Compatible with All Lighting and Motor Loads                            |
| GENERATORS     | Compatible With Generators (10x Inverter Size)                          |
| CUSTOM VOLTAGE | Available (Contact Factory)                                             |

ORDERING GUIDE

BUILD THE MODEL NUMBER LEFT → RIGHT · SHADED = OPTIONAL

EXAMPLE  
MODEL #

1

BLI-EM

2.8

S

BA2006

T-S-M

2YW

A

B

C

D

E

F

G

VOLTAGE IN / OUT

SYSTEM TYPE

KVA / KW

BATTERY TYPE

OUTPUT BREAKERS

OPTIONS

WARRANTY

A VOLTAGE IN / OUT <sup>1</sup>

|   |                                                      |
|---|------------------------------------------------------|
| 1 | 120 – 120                                            |
| 2 | 120 – 120/277 <sup>8</sup>                           |
| 3 | 208 – 120 <sup>8</sup>                               |
| 4 | 240 – 120/240 <sup>8</sup>                           |
| 5 | 277 – 120 <sup>8</sup>                               |
| 6 | 277 – 277                                            |
| 7 | 277 – 277/120 <sup>8</sup>                           |
| 8 | 208 – 120/240 <sup>8</sup>                           |
| 9 | 208 – 120/208 <sup>8</sup>                           |
| Z | Other voltages (may require UL testing) <sup>8</sup> |

B SYSTEM TYPE

|        |                |
|--------|----------------|
| BLI-EM | Modular design |
|--------|----------------|

C KVA / KW <sup>2</sup>

|     |     |
|-----|-----|
| 1   | 1.0 |
| 1.6 | 1.6 |
| 2.2 | 2.2 |
| 2.8 | 2.8 |

D BATTERY TYPE

|     |                                 |
|-----|---------------------------------|
| S   | Standard 10-yr warranty battery |
| S15 | 15-yr warranty battery          |
| S20 | 20-yr warranty battery          |

G 2YW

|                                                                          |
|--------------------------------------------------------------------------|
| Startup + same-day training · electronics warranty 1 → 2 yr <sup>6</sup> |
|--------------------------------------------------------------------------|

+ MOUNTING · PICK 1

|   |                                                                            |
|---|----------------------------------------------------------------------------|
| – | 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) |

+ ACCESSORIES

|        |                                             |
|--------|---------------------------------------------|
| EMBP   | External maintenance bypass switch – note A |
| SPARES | Spare fuses & circuit boards                |
| SPAREF | Spare fuses                                 |

E OUTPUT BREAKERS <sup>3</sup>

|     |                                                |   |         |    |     |    |     |
|-----|------------------------------------------------|---|---------|----|-----|----|-----|
| B   | OUTPUT                                         | A | VOLTAGE | 20 | AMP | 06 | QTY |
| B   | Output normally on                             |   |         |    |     |    |     |
| N   | Output normally off                            |   |         |    |     |    |     |
| A   | 120                                            |   |         |    |     |    |     |
| B   | 208                                            |   |         |    |     |    |     |
| C   | 240                                            |   |         |    |     |    |     |
| D   | 277                                            |   |         |    |     |    |     |
| Z   | Other – contact factory                        |   |         |    |     |    |     |
| AMP | 10 · 16 · 20 · 25 · 32 – distribution breakers |   |         |    |     |    |     |
| QTY | 01-10 – see note 5                             |   |         |    |     |    |     |

F OPTIONS

|        |                                                  |
|--------|--------------------------------------------------|
| A      | Remote summary alarm panel, 1 light (n/a with C) |
| BL     | Circuit breaker locking mechanism                |
| BTM    | Battery temperature monitor                      |
| C      | Status monitoring dry Form C contacts            |
| DT     | Drip top (NEMA 2)                                |
| I      | Inverter-on dry Form C contact                   |
| M      | Internal maintenance bypass (make before break)  |
| M(BBM) | Internal maintenance bypass (break before make)  |
| O      | Output transfer delay – 3 s factory, adj. .5-8 s |
| P      | Remote status panel (requires C)                 |
| S      | Summary fault dry Form C contacts                |
| T      | Output trip (supervised) alarm <sup>5</sup>      |
| V      | Variable time delay 1-15 minutes <sup>7</sup>    |
| Y      | Battery strapping                                |

F COMMUNICATIONS · PICK 1

|     |                                                        |
|-----|--------------------------------------------------------|
| BAC | BACnet                                                 |
| BIP | BACnet IP <sup>4</sup>                                 |
| IOT | IoT Inverter Connect cloud communications <sup>4</sup> |
| MIP | Modbus TCP/IP <sup>4</sup>                             |
| MOD | Modbus RTU                                             |
| SEA | Serial-to-Ethernet adapter                             |

|                                                                                                                 |                                                                                              |                                                   |                                                                         |                                                               |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------|
| <div>G</div> <div>2YW</div> <div>Startup + same-day training · electronics warranty 1 → 2 yr <sup>6</sup></div> | <div>2YWT</div> <div>Startup, training + full run test · electronics warranty 1 → 2 yr</div> | <div>5YP</div> <div>5-year maintenance plan</div> | <div>5YW</div> <div>5-yr extended electronics warranty (with 2YW)</div> | <div>TR</div> <div>Training on a day other than startup</div> |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------|

DIMENSIONS – 90 MINUTE RUN SYSTEMS

For systems with voltages other than 120 in/out or 277 in/out, cabinet heights will vary – contact factory.

| ELECTRONICS MODULE |        |     |        |          |          | CABINET DIMENSIONS |               |              |           | BATTERIES – 90 MIN @ FULL LOAD |         |           | TOTAL SYSTEM    |
|--------------------|--------|-----|--------|----------|----------|--------------------|---------------|--------------|-----------|--------------------------------|---------|-----------|-----------------|
| MODEL              | VA / W | VDC | EFF. % | NOISE DB | HEAT BTU | W IN/CM            | H IN/CM       | D IN/CM      | WT LBS/KG | BATTERIES LBS/KG               | # BATT. | CURRENT A | TOTAL WT LBS/KG |
| BLI-EM-1           | 1000   | 48  | 98     | 45       | 70       | 24.25 / 61.6       | 27.5 / 69.9   | 10.5 / 26.67 | 121 / 55  | 160 / 73                       | 4       | 26        | 281 / 128       |
| BLI-EM-1.6         | 1600   | 72  | 98     | 45       | 110      | 24.25 / 61.6       | 43.25 / 109.9 | 10.5 / 26.67 | 165 / 75  | 240 / 109                      | 6       | 27        | 405 / 184       |
| BLI-EM-2.2         | 2200   | 96  | 98     | 45       | 150      | 24.25 / 61.6       | 43.25 / 109.9 | 10.5 / 26.67 | 174 / 79  | 320 / 146                      | 8       | 27        | 494 / 225       |
| BLI-EM-2.8         | 2800   | 120 | 98     | 45       | 190      | 24.25 / 61.6       | 55 / 139.7    | 10.5 / 26.67 | 203 / 92  | 400 / 182                      | 10      | 27        | 603 / 274       |

- NOTES
- 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 takes 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.
  - External Maintenance Bypass Switch is not available with Internal Distribution Breakers.