



CABINET DEPICTED IS 50 KVA. DIMENSIONS SHOWN ON CHART, PAGE 2.

STANDARD FEATURES

- 98% Efficient Typical
- PWM/IGBT Technology and Micro-Controller
- Internal Maintenance Bypass
- User Programmable with Password Protection
- Automatic Event, Test and Alarm Log
- RS232 Communications Port
- Input Circuit Breaker
- 2 ms Transfer Time
- Low Audible Noise (45 dBA @ 1 m)
- Space-Saving Design
- 65 kAIC Withstanding Rating
- NEMA Type 1 Cabinet

SPECIFICATIONS

INPUT VOLTAGE	120/208 VAC or 277/480 VAC, 3-Phase 4-Wire Plus Ground
OUTPUT VOLTAGE	120/208 VAC or 277/480 VAC, 3-Phase 3 or 4-Wire Plus Ground
LOAD POWER FACTOR	Output .5 Lag to .5 Lead
LOAD TYPES	Compatible with All Lighting and Motor Loads
COOLING	Forced Air Cooling Only During Emergency Operation; No Filters Required

Proven Performance

Compatible with All Lighting & Motor Loads

UL 924 Listed
Self-Testing
Self-DiagnosticBuild America
Buy America
Act CompliantBuy
American Act
CompliantTrade
Agreements
Act Compliant

OPTIONAL FEATURES

- Enhanced Communications
Expanded Building Management Protocols · BACnet or Modbus Communications Interface
· NEW IoT Connect Cloud Software
- External Maintenance Bypass
- Summary Alarm Dry Form C Contacts
- Internal Output Distribution Circuit Breakers
- Factory Startup and Training
- Normally Off Output
- Output Trip Alarms
- Remote Panels (Meter, Status or Summary Alarm)
- Extended Factory Warranty and Maintenance Contracts

OUTPUT DISTORTION	Less Than 3% THD for Linear Loads
GENERATORS	Compatible With Generators (10x Inverter Size)
RUNTIME	90 Minute Standard; 120 Minute Available. Custom Voltages Available
INVERTER TEMP.	32°F to 104°F (0°C to 40°C)
BATTERY TEMP.	68°F to 86°F (20°C to 30°C) per UL 924 Specifications

ORDERING GUIDE

BUILD THE MODEL NUMBER LEFT → RIGHT · SHADED = OPTIONAL

EXAMPLE
MODEL #

1	BLI-D	4	S	—	BA2007	F	2YW
A	B	C	D	E	F	G	H
VOLTAGE IN / OUT	SYSTEM TYPE	KVA / KW	BATTERY TYPE	RUNTIME (BLANK = 90 MIN)	OUTPUT BREAKERS	OPTIONS	WARRANTY

A VOLTAGE IN / OUT ¹

1	120/208 VAC
2	277/480 VAC
Z	Other voltages & frequencies — contact factory (may require UL testing)

B SYSTEM TYPE

BLI-D	Standard
BLI-DH	OSHDP

D BATTERY TYPE

S	Standard 10-yr warranty battery
S15	15-yr warranty battery
G	20-yr warranty battery

E RUNTIME ³

—	Blank = 90 minutes standard
R120	120 minutes — see note 4

C KVA / KW ²

4.8	4.8
6	6.0
8	8.0
10	10.0
12.5	12.5
16.7	16.7
24	24.0
33	33.0
40	40.0
50	50.0

+ ACCESSORIES

DT	Drip top (NEMA 2)
EMBP	External maintenance bypass switch — note A ⁸
SPARES	Spare parts kit
SPAREF	Spare fuses

F OUTPUT BREAKERS ⁵

B	OUTPUT	A	VOLT · POLE	20	AMP	07	QTY
B	Output normally on						
N	Output normally off						
A	120 V · 1-pole						
B	208 V · 2-pole						
C	240 V · 2-pole						
D	277 V · 1-pole						
E	120/208 V · 3-pole						
F	277/480 V · 3-pole						
G	480 V · 2-pole						
Z	Other — contact factory						
AMP	10 · 16 · 20 · 25 · 32 · 40 · 50 · 63 — distribution breakers, note 6						
QTY	Maximums per frame — see note 5						

G OPTIONS

A	Remote summary alarm panel, 1 light (n/a with C)
BCF	Battery cabinet fan (included with BTM)
BL	Circuit breaker locking mechanism
BTM	Battery temperature monitor (includes BCF)
C	Status monitoring dry Form C contacts
F	Fast charge
I	Inverter-on dry Form C contact
M(BBM)	Internal maintenance bypass (break before make)
O	Output transfer delay — 3 s factory, adj. 0–7.5 s
P	Remote status panel (requires C)
S	Summary fault dry Form C contacts
T	Output trip (supervised) alarm ⁵
Z	Seismic mounting — note 9

G COMMUNICATIONS · PICK 1

BAC	BACnet
BIP	BACnet IP
IOT	IoT Inverter Connect cloud communications
MIP	Modbus TCP/IP
MOD	Modbus RTU
R	Remote meter panel (standard 100 ft cable)
SEA	Serial-to-Ethernet adapter

H	2YW
	Startup + same-day training · electronics warranty 1 → 2 yr ⁷

2YWT	Startup, training + full run test · electronics warranty 1 → 2 yr
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5YP	5-year maintenance plan
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5YW	5-yr extended electronics warranty (with 2YW)
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TR	Training on a day other than startup
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DIMENSIONS — 90 MINUTE RUN SYSTEMS ⁴

Alternate runtimes may affect cabinet size — contact factory. · Consult factory for BLI-DH dimensions.

ELECTRONICS MODULE					CABINET DIMENSIONS				BATTERY CABINET — 90 MIN @ FULL LOAD					TOTAL SYSTEM	
MODEL	KVA / KW	VDC	AMPS	HEAT BTU	W IN/CM	H IN/CM	D IN/CM	WT LBS	QTY	W IN/CM	H IN/CM	D IN/CM	# BATT.	W × H × D (IN)	WT LBS
BLI-D-4.8	4.8	144	39	326	30 / 77	47 / 120	25 / 64	535	1	30 / 77	47 / 120	25 / 64	12	60 × 47 × 25	1,633
BLI-D-6	6.0	180	39	408	30 / 77	47 / 120	25 / 64	535	1	30 / 77	47 / 120	25 / 64	15	60 × 47 × 25	1,855
BLI-D-8	8.0	240	39	544	30 / 77	47 / 120	25 / 64	535	1	30 / 77	47 / 120	25 / 64	20	60 × 47 × 25	2,247
BLI-D-10	10.0	144	81	680	30 / 77	47 / 120	25 / 64	639	1	30 / 77	47 / 120	25 / 64	24	60 × 47 × 25	2,835
BLI-D-12.5	12.5	180	81	850	30 / 77	47 / 120	25 / 64	639	2	30 / 77	47 / 120	25 / 64	30	90 × 47 × 25	3,279
BLI-D-16.7	16.7	240	81	1136	30 / 77	47 / 120	25 / 64	639	2	30 / 77	47 / 120	25 / 64	40	90 × 47 × 25	4,063
BLI-D-24	24.0	240	117	1632	44 / 112	72 / 183	31 / 79	1250	1	48 / 122	72 / 183	31 / 79	60	92 × 72 × 31	6,390
BLI-D-33	33.0	240	160	2244	44 / 112	72 / 183	31 / 79	1250	2	48 / 122	72 / 183	31 / 79	80	140 × 72 × 31	8,630
BLI-D-40	40.0	240	194	2720	44 / 112	72 / 183	31 / 79	1450	2	48 / 122	72 / 183	31 / 79	100	140 × 72 × 31	10,150
BLI-D-50	50.0	240	243	3400	44 / 112	72 / 183	31 / 79	1460	2	48 / 122	72 / 183	31 / 79	120	140 × 72 × 31	11,980

NOTES

- Standard input voltage is 4-Wire Wye. 3-Wire Delta Input requires external isolation transformer.
- kVA = kW.
- Standard battery run time is 90 minutes.
- Please contact the factory. Additional runtime, including 120 minute, may affect the system's dimensions.
- Maximum output breakers available: 4.8K–16.7K — 12 (1-pole) unsupervised or 8 (1-pole) supervised, and with the addition of a top mount enclosure an additional 30 (1-pole) unsupervised or 20 (1-pole) supervised. 24K–50K — 24 (1-pole) unsupervised or 16 (1-pole) supervised; with an extra tray, an additional 12 (1-pole) unsupervised (for a total of 36) or 14 (1-pole) supervised (for a total of 30). With an extra tray of output breakers, a main 3-pole output breaker cannot be provided. Combinations of 1, 2, and 3 pole breakers available (consult factory).
- Higher AMP ratings available — contact factory.
- One year warranty is standard.
- Maintenance bypass switch is a “make before break”.
- Anchorage based on calculations — will increase system width. For systems requiring OSHDP/Withstand testing, please see CIII-H.