

ILLUMINATOR IE

Emergency Lighting Inverter System



SINGLE PHASE INTERRUPTIBLE POWER SYSTEMS

1.5kVA/kW to 16.7kVA/kW

For LED & All Other Non-HID Lighting Loads



UL 924 Listed
Self-Testing
Self-Diagnostic



Build America
Buy America
Act Compliant

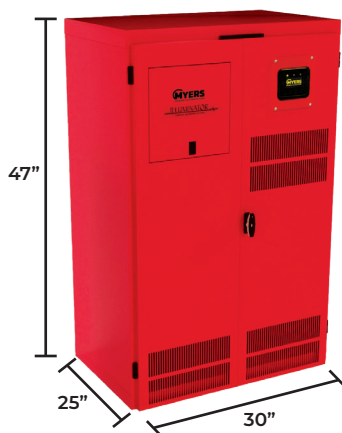


Buy
American Act
Compliant



Trade
Agreements
Act Compliant

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
- Normally On and Normally Off Output
- Input Circuit Breaker
- RS232 Communications Port
- Space-Saving Design
- 50mS 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 Non-HID lighting Including LED Drivers
- 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

ILLUMINATOR IE

Single Phase Interruptible Power Systems

1.5kVA/kW to 16.7kVA/kW



ORDERING GUIDE

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

VOLTAGE INPUT/OUTPUT¹ 1 - 120 - 120 2 - 120 - 120/277 3 - 208 - 120 4 - 240 - 120/240 5 - 277 - 120 6 - 277 - 277 7 - 277 - 277/120 8 - 208 - 120/240 A - 208 - 120/208 Z - Other Voltages (May Require UL Testing)	SYSTEM TYPE IE - Illuminator IE	KVA / KW² 1 - 1.5 2 - 2.25 3 - 3.0 4 - 3.75 5 - 5.0 6 - 6.0 7 - 8.0 8 - 10.0 9 - 12.5 10 - 16.7	BATTERY TYPE S - Standard 10YR Warranty Battery S15 - 15YR Warranty Battery G - 20YR Warranty Battery	RUNTIME³ (Other Than 90 Minutes) R120 - 120 Minutes	OUTPUT BREAKERS⁵ EXAMPLE B A 20 07 QUANTITY 01-24 ⁵ AMP RATING (Distribution Breakers) 10, 16, 20, 25, 32, 40, 50, 63 VOLTAGE A - 120 B - 208 C - 240 D - 277 Z - Other (Contact Factory)	OPTIONS A - Remote Summary Alarm Panel With One Indicator Light (Not Available With "C" Option) BL - Circuit Breaker Locking Mechanism BTM - Battery Temperature Monitor C - Status Monitoring Dry Form C Contacts F - Fast Charge 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 (Factory Set at 3 Seconds, Adjustable .5 to 8 Seconds) P - Remote Status Panel (Status Alarm/Alarm Silence Switch) (Requires C Option) R - Remote Meter Panel S - Summary Fault Dry Form C Contacts T - Output Trip (Supervised) Alarm ⁵ TD - Time Delay 15 Minutes ⁷ Z - Seismic Mounting ^{8,9}
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☐ = Required feature for part number.

☐ = Optional feature. Not required for part number.

ACCESSORIES
DT - Drip Top (NEMA 2)
EMBP - External Maintenance Bypass Switch^A
SPARES - Spare Fuses & Circuit Boards
SPAREF - Spare Fuses

A) With External Maintenance Bypass Switch, only main output breaker is available.

PICK ONLY 1:
BAC - BACnet
BIP - BACnet IP
IOT - IoT Inverter Connect Cloud Communications
MIP - Modbus TCP/IP
MOD - Modbus RTU
SEA - Serial to Ethernet Adapter

- 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), 8 supervised (1-pole) for 1.5kVA-5kVA; 24 unsupervised (1-pole), 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 IE-H.
- Seismic Mounting increases footprint from that noted above. Contact factory for detailed seismic mounting drawing.

WARRANTY & ONSITE SERVICES⁶

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