

ILLUMINATOR SUPERNOVA

Single Phase Emergency Lighting Inverter



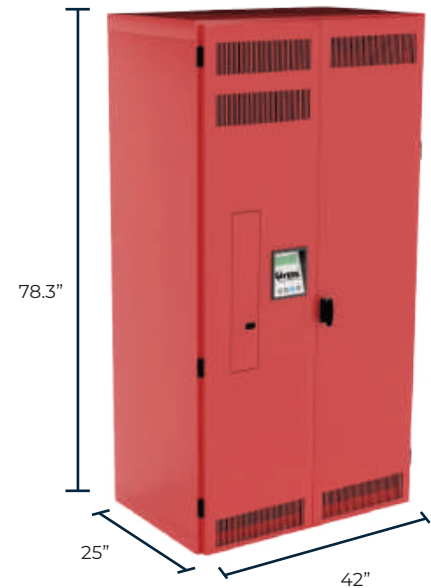
Single Phase Systems 1.75kVA/KW to 16.7kVA/KW
 Designed with Industry Leading Compact Footprint for
 All Lighting & Motor Loads



Models 1.75kVA to 5.0kVA




Models 6.25kVA to 7.5kVA



Models 10.0kVA to 16.7kVA

STANDARD FEATURES

- EFFICIENT:** 98% Typical Efficiency
- SMART:** PWM/IGBT Technology & Micro-Controller
User Programmable with Password Protection
Automatic Event, Test and Alarm Log
RS232 Communication Port
Input Circuit Breaker
- COMPACT:** NEMA Type 1 Single Cabinet Compact Design
- FAST:** 2ms Transfer Time - Fast Transfer
-  **CERTIFIED:** UL924 Listed
65 kAIC Interrupting Rated
- QUIET:** Low Audible Noise

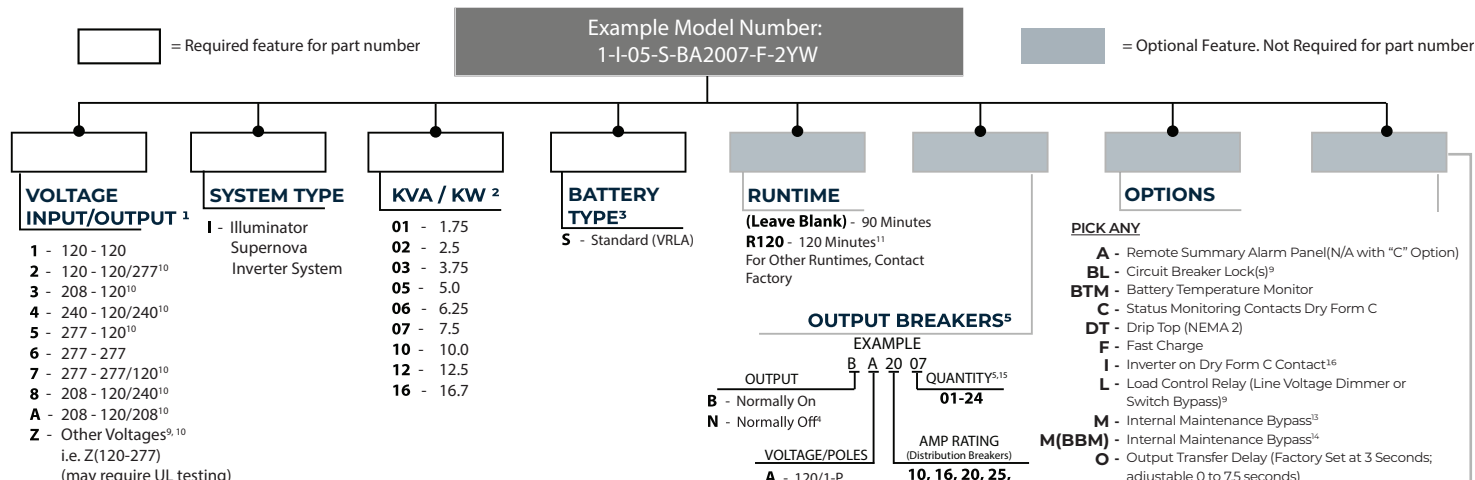
OPTIONAL FEATURES

- ENHANCED COMMUNICATIONS:**
Expanded Building Management Protocols
including BACnet, Modbus, CLI &
NEW IoT 2.0 Connect Cloud Software
- MAINTENANCE BYPASS:** Internal or External
- REMOTE PANELS:** Meter & Summary Alarm
- BREAKERS:** Output Circuit Breakers
- FACTORY STARTUP & TRAINING**
- NORMALLY OFF OUTPUT**
- OUTPUT TRIP ALARMS**
- SUMMARY DRY FORM C CONTACTS**
*see page 2 for complete list of available options

SPECIFICATIONS

- Input 120 or 277VAC 1 Phase 2 Wire Plus Ground
- Output 120 or 277VAC 1 Phase 2 Wire Plus Ground
- Output Load Power Factor .5 Lag to .5 Lead
- Compatible with LED Drivers
- Forced Air Cooling Only Emergency Operations; No Filters Required
- Output Voltage Distortion Less than 3% THD for Linear Loads
- Compatible with Generators (10x Inverter Size)
- Custom Voltages Available
- 90 Minute Runtime Standard; 120 Minute available Optionally
- Inverter Operating Temp. 32°F/0°C to 104°F/40°C
- Battery Operating Temp. 68°F/20°C to 86°F/30°C per UL 924 Specifications

ORDERING GUIDE



- Only single phase voltages available
- KVA = KW
- Standard Battery Runtime is 90 Minutes
- Normally Off Loads Cannot Exceed 20% of total KVA Rating with any Combinations of HID Loads
- Maximum Output Breakers Available:
 1.75kVA-5kVA : 16 unsupervised (1-pole); or 11 supervised (1-pole)
 6.25kVA-7.5kVA : 24 unsupervised (1-pole); or 16 supervised (1-pole)
 10kVA - 16.7kVA : 33 unsupervised (1-pole); or 22 supervised (1-pole)
 *Breakers are 20 Amps unless otherwise specified. A 2-pole breaker occupies 2 positions
- One year warranty is standard
- 15 Minute retransfer time delay of normally off circuit after return of utility
- Cannot purchase External Maintenance Bypass Switch with Output Breaker options
- Contact Factory
- Enclosure dimensions will increase to 56.3"H (1.75kVA-5kVA) and 61" (6.25kVA -7.5kVA). Remains 78.3H (10kVA-16.7kVA)
- Contact Factory. 120 Minute runtime is not available on 16.7kVA systems. *120 runtime may change system dimensions-check with factory for details;
- Anchorage based on calculations. For systems requiring OSHPD/withstanding testing, contact factory
- Maintenance Bypass Switch is a "make before break"
- Maintenance Bypass Switch is "break before make"
- Contact factory for main output breaker above 63 amps
- Included with "C" Options

- NOTE: Not all options are described in UL File
- PICK ONLY 1**
- BAC** - BACnet(MSTP Only)
 - BIP** - BACnet IP
 - IOT** - IoT Inverter Connect Cloud Communications
 - R** - Remote Meter Panel
 - MIP** - Modbus TCP/IP
 - MOD** - Modbus RTU
 - SEA** - Serial to Ethernet Adapter
- WARRANTY⁶**

- 2YW** - Start Up & Same Day Training
- 2YWT** - Start Up, Same Day Training and Full Run Test
- 5YP** - 5-Year Preventative Maintenance Plan
- 5YW** - 5-Year Extended Electronics Warranty
- TR** - Training On Day Other Than Start Up

- ACCESSORIES**
- EMBP(BBM)- External Maintenance Bypass^{8, 14}
 - SPAREF - Spare Fuses
 - SPARES - Spare Parts Kit - Fuses and PCBs

DIMENSIONS

Electronics Module (1 Cabinet per System) (Sized for 90 Minute Runtime)								Batteries 90 Minutes @ Full Load (Batteries Internal to Electronics Cabinet)				Total System Weight (lbs)
Partial Model Number	Power Rating (KVA / KW)	Efficiency (Typical %)	Audible Noise (db)	Heat Loss (BTU)	Cabinet Dimensions			Number of Batteries	Voltage (VDC)	Current (amps)	Weight per Battery (lbs)	
					Width (in / cm)	Height (in / cm)	Depth (in / cm)					
I-01	1.75	98	45	119	24 / 61	48 / 122	25 / 64	4	48	46	80	567
I-02	2.5	98	45	170	24 / 61	48 / 122	25 / 64	4	48	66	100	743
I-03	3.75	98	45	255	24 / 61	48 / 122	25 / 64	6	72	66	100	1000
I-05	5.0	98	45	340	24 / 61	48 / 122	25 / 64	8	96	66	100	1257
I-06	6.25	98	45	425	36 / 91	53 / 135	25 / 64	10	120	66	100	1618
I-07	7.5	98	45	510	36 / 91	53 / 135	25 / 64	12	144	66	100	1884
I-10	10.0	98	45	680	42 / 107	78.3 / 199	25 / 64	12	144	88	120	2404
I-12	12.5	98	45	850	42 / 107	78.3 / 199	25 / 64	15	180	88	120	2810
I-16	16.7	98	45	1136	42 / 107	78.3 / 199	25 / 64	20	240	88	120	3470