

# ILLUMINATOR HYPERNOVA-H Emergency Lighting Inverter System



## THREE PHASE SYSTEMS 5kVA/kW to 50kVA/kW Industry's Smallest OSHPD Lighting Inverter Solution



**OSHPD Special  
Seismic Certification  
Preapproval Number:  
OSP-0895**

The OSHPD Special Seismic Certification Preapproval (OSP) is a voluntary program for review and preapproval of special seismic certification of non-structural components used in California healthcare facility construction.

[www.hcai.ca.gov](http://www.hcai.ca.gov)



5kVA to 10kVA

12.5kVA to 16.7kVA

25kVA to 50kVA

### 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
- 2ms Transfer Time
- Low Audible Noise (45 dBA @1m)
- Space-Saving Design
- 65kAIC Withstanding Rating
- NEMA Type 1 Cabinet
- Withstand Seismic Rating Based on Shaker Table Testing

### 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

### SPECIFICATIONS

- Input Voltage: 120/208VAC or 277/480 VAC  
3-Phase 4-Wire Plus Ground
- Output Voltage: 120/208VAC or 277/480 VAC  
3-Phase 3 or 4-Wire Plus Ground
- Output Load Power Factor .5 Lag to .5 Lead
- Compatible with All Lighting and Motor Loads
- Forced Air Cooling Only During Emergency Operation;  
No Filters Required
- Output Distortion Less Than 3% THD for Linear Loads
- Compatible With Generators (10x Inverter Size)
- Custom Voltages Available
- 90 Minute Runtime Standard; 120 available
- 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 HYPERNOVA-H

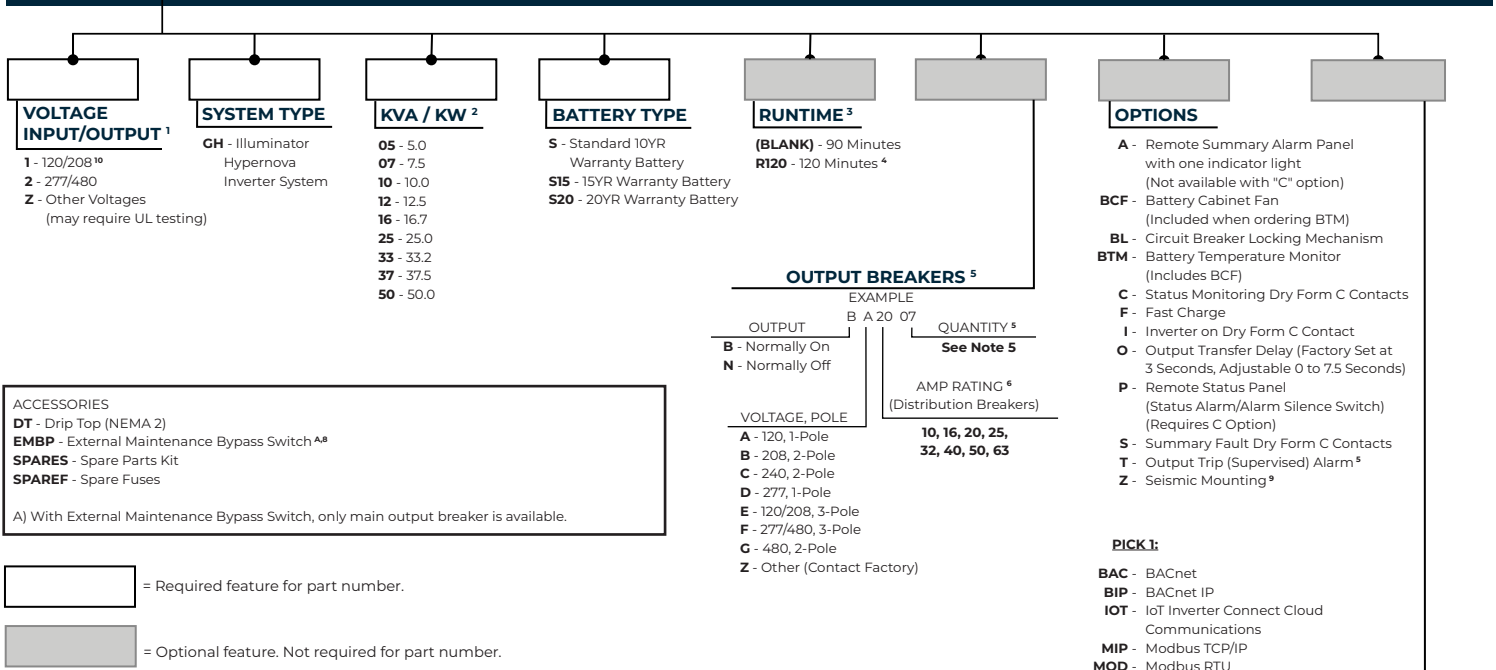
## Emergency Lighting Inverter

### Three Phase Systems 5kVA/kW to 50kVA/kW



## ORDERING GUIDE

## EXAMPLE MODEL # 1-GH-05-S-BA2007-T-2YW



**ACCESSORIES**  
 DT - Drip Top (NEMA 2)  
 EMBP - External Maintenance Bypass Switch <sup>A</sup>  
 SPARES - Spare Parts Kit  
 SPAREF - Spare Fuses

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

= Required feature for part number.  
 = Optional feature. Not required for part number.

- 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:
  - 5K-10K - 1 Internal (3-pole); 30 (1-pole) unsupervised or 20 supervised (1-pole) with the addition of a top mount enclosure.
  - 12.5K & 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.
  - 25K-50K - 24 (1-pole) unsupervised or 16 (1-pole) supervised and with an extra tray an additional 14 (1-pole) unsupervised or 12 (1-pole) supervised.
 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 OSHPD/Withstand testing, please see CIII-H.
- Contact factory for other voltages.

- WARRANTY <sup>7</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 (90 MINUTE RUN SYSTEMS)<sup>4</sup> Alternate run times may affect cabinet size. Contact factory.

Electronics Module							Batteries 90 Minutes @ Full Load					Total System			
Partial Model Number	Power Rating (KVA / KW)	Heat Loss (BTU)	Cabinet Dimensions				Voltage (VDC)	Current (Amps)	Battery Cabinet Dimensions			Number of Batteries	Dimensions W X H X D (in)	Weight (lbs)	
			Width (in / cm)	Height (in / cm)	Depth (in / cm)	Weight (lbs)			QTY	Width (in / cm)	Height (in / cm)				Depth (in / cm)
GH-05	5.0	341	24 / 61	47 / 119	25 / 64	485	144	41	1	17.5 / 44.5	62 / 157.5	25 / 64	12	47.5 x 62 x 25	1,730
GH-07	7.5	512	24 / 61	47 / 119	25 / 64	485	144	61	1	17.5 / 44.5	62 / 157.5	25 / 64	12	47.5 x 62 x 25	1,970
GH-10	10.0	682	24 / 61	47 / 119	25 / 64	590	144	81	1	17.5 / 44.5	62 / 157.5	25 / 64	12	47.5 x 62 x 25	2,315
GH-12	12.5	853	30 / 76	47 / 119	25 / 64	640	180	81	1	22.75 / 58	77 / 196	25 / 64	15	58.8 x 77 x 25	2,815
GH-16	16.7	1139	30 / 76	47 / 119	25 / 64	640	240	81	1	22.75 / 58	77 / 196	25 / 64	20	58.8 x 77 x 25	3,415
GH-25	25.0	1705	37.5 / 95	72 / 182	25 / 64	1150	240	122	2	45.5 / 116	77 / 196	25 / 64	40	89.3 x 77 x 25	5,900
GH-33	33.2	2264	37.5 / 95	72 / 182	25 / 64	1150	240	161	2	45.5 / 116	77 / 196	25 / 64	40	89.3 x 77 x 25	6,700
GH-37	37.5	2558	37.5 / 95	72 / 182	25 / 64	1360	240	182	3	68.25 / 173.5	77 / 196	25 / 64	60	112 x 77 x 25	8,485
GH-50	50.0	3410	37.5 / 95	72 / 182	25 / 64	1360	240	243	3	68.25 / 173.5	77 / 196	25 / 64	60	112 x 77 x 25	9,685