

ILLUMINATOR CIII-H

Emergency Lighting Inverter System



THREE PHASE SYSTEMS

4.8kVA/kW to 50kVA/kW

Designed with Industry Leading
Compact Footprint



OSHPD Special Seismic Certification Preapproval Number: OSP-0258

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



Models 4.8kVA to 50kVA

STANDARD FEATURES

- Withstand Seismic Rating Based on Shaker Table Testing
- 98% Efficient Typical
- Automatic Event, Test, and Alarm Log
- User Programmable With Password Protection
- Internal Maintenance Bypass
- Input Circuit Breaker
- RS232 Communications Port
- Space-Saving Design
- No Break 2ms 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
- External Maintenance Bypass
- Summary Alarm
- Output Circuit Breakers
- Status Monitoring & Summary Form C Contacts
- Normally Off Output
- 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 Lighting and Motor Loads
- Compatible With Generators (10x Inverter Size)
- 90 Minute Runtime Standard; Extended Runtimes Available upon Request

ILLUMINATOR CIII-H

Emergency Lighting Inverter

Three Phase Systems 1.5kVA/kW to 16.7kVA/kW



ORDERING GUIDE

EXAMPLE MODEL # 1-DH-4-S-BA2007-F-2YW

VOLTAGE INPUT/OUTPUT ¹ 1 - 120/208 2 - 277/480 Z - Other Voltages (May Require UL Testing)	SYSTEM TYPE DH - Illuminator CIII-H	KVA / KW ² 1 - 4.8 2 - 6.0 3 - 8.0 4 - 10.0 5 - 12.5 6 - 16.7 7 - 24.0 8 - 33.0 9 - 40.0 10 - 50.0	BATTERY TYPE S - Standard 10YR Warranty Battery S15 - 15YR Warranty Battery G - 20YR Warranty Battery	RUNTIME³ (Other Than 90 Minutes) R120 - 120 Minutes	OUTPUT BREAKERS ⁵ EXAMPLE B A 20 07 OUTPUT B - Normally On N - Normally Off VOLTAGE, POLE A - 120, 1-Pole B - 208, 2-Pole C - 240, 2-Pole D - 277, 1-Pole E - 120/208, 3-Pole F - 277/480, 3-Pole G - 480, 2-Pole Z - Other (Contact Factory)	QUANTITY ⁵ See Note 5 AMP RATING ⁷ (Distribution Breakers) 10, 16, 20, 25, 32, 40, 50, 63	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(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) S - Summary Fault Dry Form C Contacts T - Output Trip (Supervised) Alarm ⁸ PICK ONLY 1: BAC - BACnet BIP - BACnet IP IOT - IoT Inverter Connect Cloud Communications MIP - Modbus TCP/IP MOD - Modbus RTU R - Remote Meter Panel SEA - Serial to Ethernet Adapter
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☐ = Required feature for part number.

☐ = Optional feature. Not required for part number.

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

A) With External Maintenance Bypass Switch, only main output breaker is available.
B) Accessories are not shaker table tested.

1. Only three phase voltages available.
2. KVA= KW
3. Standard battery runtime is 90 minutes. Contact factory for other runtimes. 120-minute run time is not available for 16.7kVA systems.
4. Normally off loads cannot exceed 20% of total kVA rating with any combination of HID loads.
5. 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.
6. One year warranty is standard.
7. Higher AMP ratings available - contact factory.
8. Total dimensions include width of mounting brackets.

WARRANTY & ONSITE SERVICES ⁶

- 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		
Partial Model Number	Power Rating (KVA / KW)	Heat Loss (BTU)	Cabinet Dimensions				Voltage (VDC)	Current (Amps)	Battery Cabinet Dimensions				Number of Batteries	Dimensions W ⁸ 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)			
DH-1-S	4.8	326	30 / 77	47 / 120	25 / 64	535	144	39	1	30 / 77	47 / 120	25 / 64	12	67 x 47 x 25	1633
DH-2-S	6.0	408	30 / 77	47 / 120	25 / 64	535	180	39	1	30 / 77	47 / 120	25 / 64	15	67 x 47 x 25	1855
DH-3-S	8.0	544	30 / 77	47 / 120	25 / 64	535	240	39	1	30 / 77	47 / 120	25 / 64	20	67 x 47 x 25	2247
DH-4-S	10.0	680	30 / 77	47 / 120	25 / 64	639	144	81	2	30 / 77	47 / 120	25 / 64	24	97 x 47 x 25	2835
DH-5-S	12.5	850	30 / 77	47 / 120	25 / 64	639	180	81	2	30 / 77	47 / 120	25 / 64	30	97 x 47 x 25	3279
DH-6-S	16.7	1136	30 / 77	47 / 120	25 / 64	639	240	81	2	30 / 77	47 / 120	25 / 64	40	97 x 47 x 25	4063
DH-7-S	24.0	1632	44 / 112	72 / 183	31 / 79	1250	240	117	1	48 / 122	72 / 183	31 / 79	60	99 x 72 x 31	6390
DH-8-S	33.0	2244	44 / 112	72 / 183	31 / 79	1250	240	160	2	48 / 122	72 / 183	31 / 79	80	147 x 72 x 31	8630
DH-9-S	40.0	2720	44 / 112	72 / 183	31 / 79	1450	240	194	2	48 / 122	72 / 183	31 / 79	100	147 x 72 x 31	10150
DH-10-S	50.0	3400	44 / 112	72 / 183	31 / 79	1460	240	243	2	48 / 122	72 / 183	31 / 79	120	147 x 72 x 31	11980