ILLUMINATOR LV-H Emergency Lighting Inverter



OSHPD RATED MINI INVERTERS (SEISMIC SHAKER TABLE TESTED)

SINGLE PHASE SYSTEMS 175VA/W to 750VA/W









Self-Testing Self-Diagnostic

Build America Buy America Act Compliant

American Act Compliant

Agreements Act Compliant

OSHPD Special Seismic Certification Preapproval Number: OSP-0496

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



175VA/W



350 or 550VA/W



750VA/W

STANDARD FEATURES

- · High Efficiency System
- · Compatible With Incandescent, Fluorescent, LED & Quartz
- · Input Fuse and Battery Fuse Protection
- · 90 Minute Run Time
- · System Status Indicators & Momentary Test Switch
- · High Crest Factor and Inrush Capabilities
- · Pure Sine Wave
- · Summary Fault Form C Contacts
- Floor Mount (Not Available on 175VA/W Systems)
- · Battery Strapping
- NEMA Type 1 Cabinet

OPTIONAL FEATURES

- · Enhanced Communications
 - Expanded Building Management Protocols
 - BACnet or Modbus Communications Interface
 - NEW IoT Connect Cloud Software
- · Status Monitoring Contacts
- Output Circuit Breakers (Not Available on 175VA/W Systems)
- · Automatic Event, Test and Alarm Log
- NFPA 101 Self Testing and Data Logging
- · Factory Startup and Training

SPECIFICATIONS

- · Input Voltage: Field Selectable at 120VAC or 277VAC; 1-Phase 2-Wire Plus Ground +10% to -15%
- Relative Humidity < 95% (Non-Condensing)
- · Load Power Factor: 0.5 Lagging to 0.5 Leading
- Output Voltage Distortion < 10% for Resistive Loads
- · Line Interactive PWM Inverter Type Utilizing MOSFET Technology with 6mS Transfer Time
- Compatible With Generators (10x Inverter Size)
- Maintenance Free VRLA Batteries

- Microprocessor-Controlled, 3-Stage Battery Charger
- · Alarms Include Monthly Test Fault, Yearly Test Fault, Charger Fault, Load Reduction Fault, Output Voltage Low, Output Voltage High, Overload Fault, Low Voltage Disconnect, Heatsink Over Temp and Input Fuse Failure
- 10kAIC at 120VAC; 1.5kAIC at 277VAC
- 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

ILLUMINATOR LV-H

Emergency Lighting Inverter Single Phase Systems 175VA/W to 750VA/W



ORDERING GUIDE EXAMPLE MODEL # LVH-4-R-3-B2003-F-HH-LVST SYSTEM TYPE MODEL TYPE VA/W² **ENCLOSURE** MOUNTING ONSITE SERVICES COLOR & WARRANTY 10 IVH - Illuminator IVH 1 - 175 1 - Standard (UL 924) 4,5 (Blank) - Standard Wall Mount (OSHPD Rated) **2** - 350 R - Red (Standard) 2 - Internal Meter Panel and Advanced B - Wall Mount (175VA system) LVST - Start Up & Same Testing & Logging... W - Both Wall Mount and Floor Mount W - White Day Training 3 - Advanced Testing & Logging - No Meter Panel (UL 924 & NFPA 101) 4 - 750 **G** - Gray (350VA - 750VA systems) TR - Training On Day **B** - Black Other Than Start Up **OPTIONS OUTPUT BREAKERS 3** Choose From Applicable Model Type / Mounting category B 20 03 OUTPUT QUANTITY (Blank) - None 01-06 B - Normally On MODEL TYPE 1 OPTIONS **MODEL TYPE 2 & 3 OPTIONS** N - Normally Off AMP RATING (WALL OR FLOOR) (WALL OR FLOOR VERSIONS) S - Switched 7,8,9 (Distribution Breakers) 5, 10, 15, 20 CAN PICK ANY: D - Drip Top (NEMA 2) D - Drip Top (NEMA 2) F - Battery Charger Upgrade (12-Hour Recharge) Battery Charger Upgrade (12-Hour Recharge) LF - TVSS Line Filter IF - TVSS Line Filter R - Infrared Remote Test R - Infrared Remote Test RT - Remote Test Switch, Alarm & Indicator 1. Wall mounted unit is standard. CAN PICK 1 Only (Type 2 & 3): 2. VA = W 3. Maximum output breakers available: 175VA-no OCBs available, C - Status Monitoring Dry Form C Contacts 9 CAN PICK 1: 350/550VA 3 OCBs max, 750VA and 1100VA 6 OCBs max. DR - Dimming Relay 9 No meter panel included. Options BIP, MIP & IOT are not available. C - Status Monitoring Dry Form C Contacts 9 (Breaks 0-10V Dimming Signal) DR - Dimming Relay 9 0 - Output Transfer Delay to Emergency 5 6. Requires HH or RMP option to retrieve data (Breaks 0-10V Dimming Signal) (Factory Set at 6 Seconds) 7. Normally off not available when using switched output. Z - Zone Monitorina 0 - Output Transfer Delay to Emergency 9 8. Maximum of 3 switched outputs, each with 10 amp circuit breaker. (Factory Set at 6 Seconds) (Quantity Must Be Specified; Maximum of 3) 9. Multiple switched outputs or transfer delay limits available alarm contacts Zone Monitoring BACnet Communications (MSTP) on Type 2 and 3 systems. For systems with two or more switch outputs, (Quantity Must Be Specified; Maximum of 3) BIP " - BACnet IP cannot have additional communications or monitoring contacts. IOT " - IoT Inverter Connect Cloud Communications 10. 3 year standard warranty includes all parts. Up to 10 years prorated warranty MIP " - Modbus TCP/IP on batteries MOD - Modbus RTU 11. BIP/IOT/MIP options increase cabinet height by 8".

DIMENSIONS							Alternate runtimes may affect cabinet size - contact factory.			
Electronics Module						Batteries 90 Minutes @ Full Load			Total	
Partial Model Number	Power	Cabinet Dimensions				90 Minute	Number		System Weight	
	Rating (VA / W)	Width (in / cm)	Height (in / cm)	Depth (in / cm)	Weight (lbs / kg)	Batteries (lbs / kg)	of Batteries	Voltage (VDC)	(lbs)	
LVH-1 Recessed Wall Mount	175	16.25 / 41.275	19.75 / 50.165	6.5 / 16.51	30 / 13.6	25 / 11.4	1	12	55 / 25	
LVH-1 Standard	175	14.25 / 36.195	17.75 / 45.085	6.5 / 16.51	30 / 13.6	25 / 11.4	1	12	55 / 25	
LVH-2	350	19 / 48.26	25 / 63.5	9.25 / 23.495	50 / 22.7	50 / 22.7	2	24	100 / 45.4	
LVH-3	550	19 / 48.26	25 / 63.5	9.25 / 23.495	55 / 24.9	75 / 34.0	3	36	130 / 59	
LVH-4	750	25.25 / 64.135	25 / 63.5	9.25 / 23.495	80 / 36.3	100 / 45.4	4	48	180 / 81.7	

= Required feature for part number

Optional feature. Not required for part number.

MUST PICK 1 FOR TYPE 3:

RMP - Remote Meter

HH - Handheld Meter