

ILLUMINATOR LV

Emergency Lighting Inverter



SINGLE PHASE SYSTEMS

175VA/W to 1100VA/W



175VA/W

350 or 550VA/W

750VA/W

1100VA/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
- Red Wall Mounted Cabinet
- High Crest Factor and Inrush Capabilities
- Pure Sine Wave
- Summary Fault Dry Form C Contacts
- 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 (Except on 175VA/W Systems)
- Floor Mount
- Battery Strapping
- Plenum Rated 175VA Grid Mount Only
- 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
- 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

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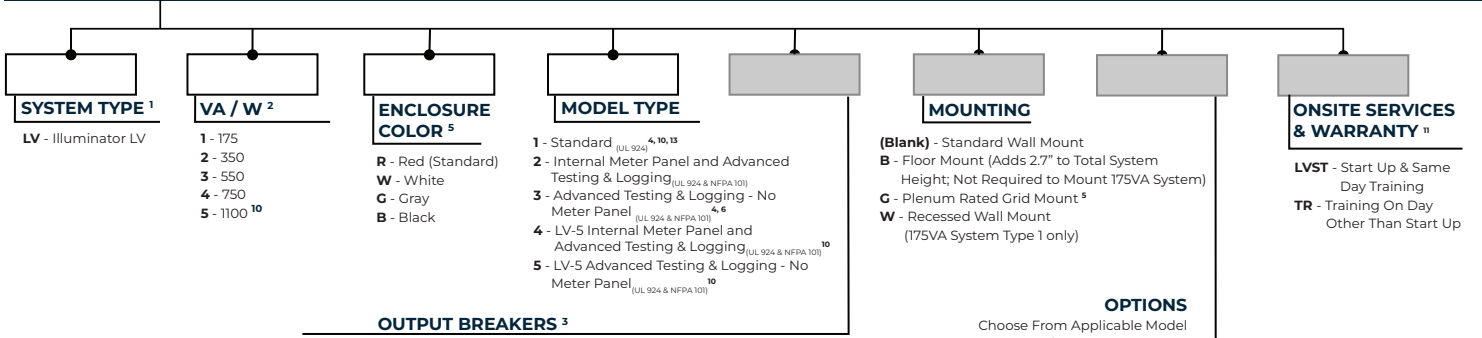
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Single Phase Systems 175VA/W to 1100VA/W



ORDERING GUIDE

EXAMPLE MODEL # LV-4-R-3-B2003-F-HH-LVST



OUTPUT BREAKERS³

EXAMPLE: B 20 03

OUTPUT	QUANTITY
(Blank) - None	01-06
B - Normally On	
N - Normally Off ⁷	
S - Switched ^{7,8,9}	

AMP RATING (Distribution Breakers)
5, 10, 15, 20

- Wall mounted unit is standard.
- VA = W
- Maximum output breakers available: 175VA-no OCBs available, 350/550VA 3 OCBs max, 750VA and 1100VA 6 OCBs max.
- No meter panel included.
- Grid/Ceiling mounted system standard color is white, only available on 175VA. All other models, the standard color is red.
- Requires HH or RMP option to retrieve data.
- Normally off not available when using switched output.
- Maximum of 3 switched outputs, each with 10 amp circuit breaker.
- Multiple switched outputs or transfer delay limits available alarm contacts on Type 2 and 3 systems. For systems with two or more switch outputs, cannot have additional communications or monitoring contacts.
- 1100VA Systems are only available as Model Type 1, Type 4 and Type 5.
- 3 year standard warranty includes all parts. Up to 10 years prorated warranty on batteries.
- BIP/IOT/MIP options increase cabinet height by 8".
- BIP, MIP & IOT are not available on Type 1 systems.

= Required feature for part number.

= Optional feature. Not required for part number.

MODEL TYPE 1 OPTIONS (WALL OR FLOOR)

- CAN PICK ANY:**
- D - Drip Top (NEMA 2)
 - F - Battery Charger Upgrade (12-Hour Recharge)
 - LF - TVSS Line Filter
 - R - Infrared Remote Test
 - RT - Remote Test Switch, Alarm & Indicator
 - S - Battery Strapping

- CAN PICK 1:**
- C - Status Monitoring Dry Form C Contacts⁹
 - DR - Dimming Relay⁹ (Breaks 0-10V Dimming Signal)
 - O - Output Transfer Delay to Emergency⁹ (Factory set at 6 seconds)
 - Z - Zone Monitoring (Quantity Must be Specified; Maximum of 3)

OPTIONS FOR "G" GRID MOUNT VERSION (175VA)**

- Grid Type 1:**
- R - Infrared Remote Test
 - RT - Remote Test Switch, Alarm & Indicator

**Grid Mount Options is Only Available for 175VA Units

MODEL TYPE 2, 3, 4 & 5 OPTIONS (WALL OR FLOOR)

- CAN PICK ANY:**
- D - Drip Top (NEMA 2)
 - F - Battery Charger Upgrade (12-Hour Recharge)
 - LF - TVSS Line Filter
 - R - Infrared Remote Test
 - S - Battery Strapping

- CAN PICK 1 Only (Type 2, 3, 4 & 5):**
- C - Status Monitoring Dry Form C Contacts⁹
 - DR - Dimming Relay⁹ (Breaks 0-10V Dimming Signal)
 - O - Output Transfer Delay to Emergency⁹ (Factory Set at 6 Seconds)
 - Z - Zone Monitoring (Quantity Must Be Specified; Maximum of 3)

- BAC - BACnet Communications (MSTP)
- BIP¹² - BACnet IP
- IOT¹² - IOT Inverter Connect Cloud Communications
- MIP¹² - Modbus TCP/IP
- MOD - Modbus RTU

- MUST PICK 1 FOR TYPE 3 & 5:**
- RMP - Remote Meter
 - HH - Handheld Meter

DIMENSIONS

Electronics Module						Batteries 90 Minutes @ Full Load			Total System Weight (lbs)
Partial Model Number	Power Rating (VA / W)	Cabinet Dimensions				90 Minute Batteries (lbs / kg)	Number of Batteries	Voltage (VDC)	
		Width (in / cm)	Height (in / cm)	Depth (in / cm)	Weight (lbs / kg)				
LV-1 Plenum Rated Grid Mount	175	23.875 / 60.6	7.5 / 19.1	8 / 20.3	23 / 10.4	25 / 11.4	1	12	48 / 21.8
LV-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
LV-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
LV-2	350	19 / 48.26	22 / 55.88	9.25 / 23.495	50 / 22.7	50 / 22.7	2	24	100 / 45.4
LV-3	550	19 / 48.26	22 / 55.88	9.25 / 23.495	55 / 24.9	75 / 34.0	3	36	130 / 59
LV-4	750	25.25 / 64.135	22 / 55.88	9.25 / 23.495	80 / 36.3	100 / 45.4	4	48	180 / 81.7
LV-5	1100	26 / 66.04	25.3 / 64.262	10.125 / 25.718	87 / 39.5	159 / 72	4	48	246 / 111.5