

# ISI-LV Series

## Emergency Lighting Inverter



# Inverter Systems, Inc.

WWW.INVERTERSYSTEMSINC.COM

## SINGLE PHASE SYSTEMS

### 175VA/W to 1100VA/W



UL 924 Listed  
Self-Testing  
Self-Diagnostic



Build America  
Buy America  
Act Compliant



Buy  
American Act  
Compliant



Trade  
Agreements  
Act Compliant



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
- 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
- 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

# ISI-LV SERIES

Emergency Lighting Inverter Single Phase  
Systems 175VA/W to 1100VA/W

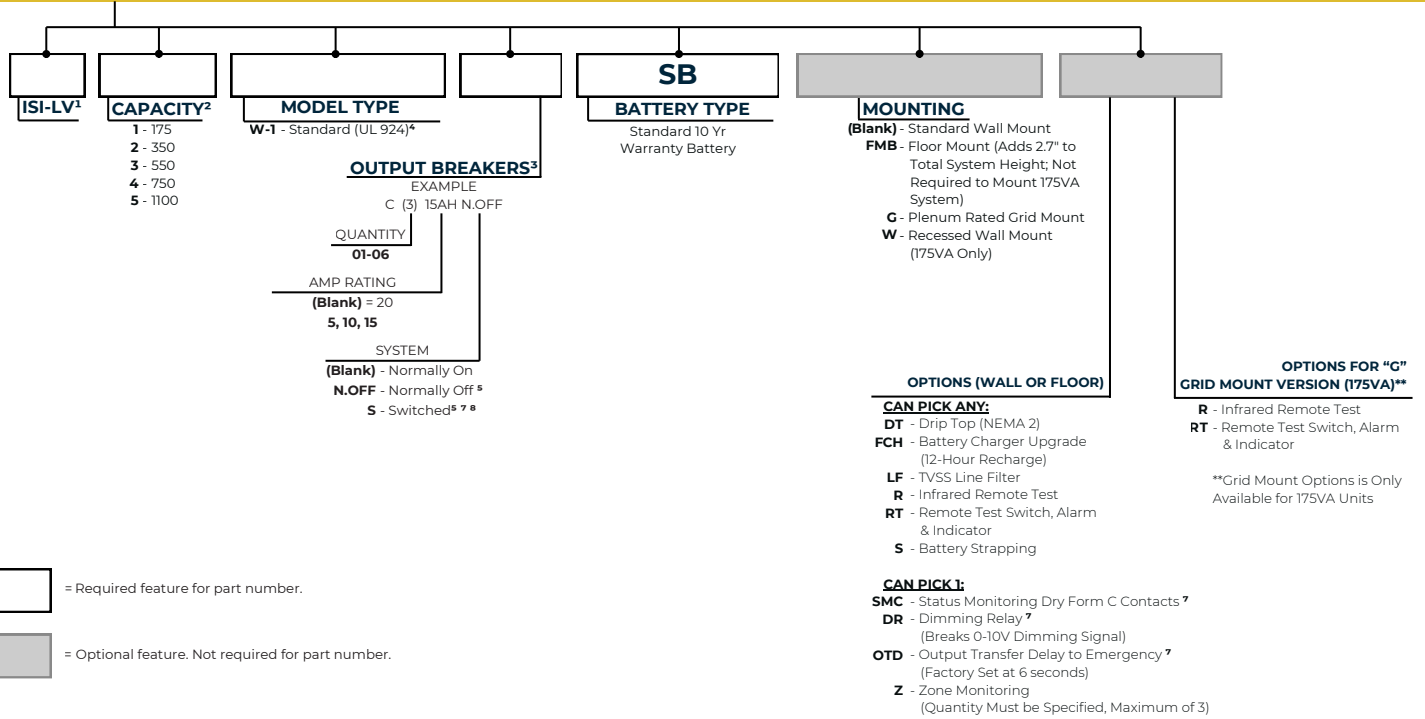


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## ORDERING GUIDE

EXAMPLE MODEL # LV-5-W-1-C(1)-SB



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

1. Wall mounted unit is standard.
2. VA = W
3. Maximum output breakers available: 175VA-no OCBs available, 350/550VA 3 OCBs max, 750VA and 1100VA 6 OCBs max.
4. No meter panel included.
5. Normally off not available when using switched output.
6. Maximum of 3 switched outputs, each with 10 amp circuit breaker.
7. 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.
8. 1 year standard warranty includes all parts. Up to 10 years prorated warranty on batteries.

## 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