

ISI - LV

175-1100 VA/W APPLICATIONS

MINI EMERGENCY POWER SOURCE FOR LED, INCANDESCENT, FLUORESCENT



The Inverter Systems, Inc. ISI-LV provides a high efficiency single phase “stand-by” central AC emergency power system ideally suited for L.E.D, fluorescent and incandescent emergency lighting applications or other auxiliary loads that require an interruptible voltage regulated and line conditioned power supply.

The ISI-LV demonstrates exceptional 98% operating efficiency. Available in four different capacities, the ISI-LV is designed to provide up to 90 minutes of standby emergency power in accordance with the requirements of U.L. 924.

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 Less Than 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 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

STANDARD FEATURES:

- UL 924 Listed
- UL 924 Self-Testing & Self-Diagnostics
- 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
- White Wall Mounted Cabinet
- High Crest Factor and Inrush Capabilities
- Pure Sine Wave
- Summary Fault Form C Contacts

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)
- Seismic Bracing
- Factory Startup and Training
- Plenum Rated 175VA Grid Mount Only
- Remote Summary Alarm Panel
- Automatic Event, Test and Alarm Log
- NFPA 101 Self Testing and Data Logging
- Two-hour Run-time
- Dimming Relay (Breaks 0-10V Dimming Signal)



ISI-LV Model Capacity VA	Power Rating (VA/W)	90 min. Average Battery Voltage	Inverter Cabinet Dimensions (inches)			# Batteries	Total system shipping weight (lbs.)
			W (A)	H (B)	D (C)		
ISI-LV-1 (175)	175	12	14.25	17.75	6.5	1	55
ISI-LV-2 (350)	350	24	19	22	9.25	2	100
ISI-LV-3 (550)	550	36	19	22	9.25	3	130
ISI-LV-4 (750)	750	48	25.25	22	9.25	4	180
ISI-LV-5 (1100)	1100	48	26	25.3	10.125	4	246

WHITE COLOR FOR LV MODELS AS OF 2022 BELOW

- The system shall be an Inverter Systems model No. _____ as manufactured for and warranted by Inverter Systems, Inc. (for copy of detailed specification format - consult factory)

ORDERING GUIDE:

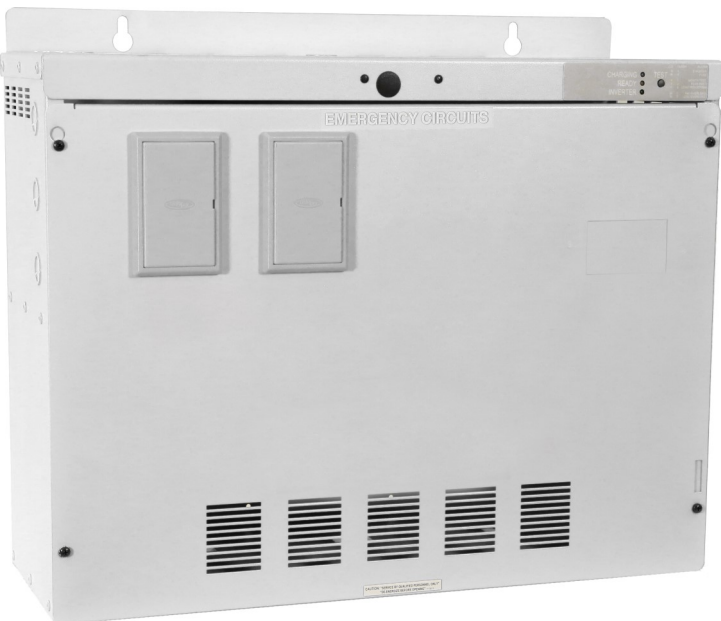
When ordering an ISI-LV from Inverter Systems, Inc., use:

ISI-LV - $\frac{3}{1}$ - $\frac{W}{2}$ - $\frac{1}{3}$ - $\frac{C(4)}{4}$ - $\frac{OPTIONS}{5}$ - $\frac{6}{6}$

- Model Series** ISI-LV
- Volt Amp (VA) Rating** 1-5
Select required capacity in watts from model tables above
- Cabinet Color** White W
- Rating** Standard (UL 924) 1
- Output Circuit Breakers** Specify number of output circuit breakers (maximum 4 per system, unmonitored) C ()
- Options**
 - Output Trip Alarm OTA ()
 - Summary Dry Contacts (Form "C") DCS
 - Remote Summary Alarm Panel RSAP
 - Dimming Relay (Breaks 0-10V Signal) DR
 - Two-hour run time (not available on 1100W) SB(120)

Battery Warranty

Sealed lead calcium batteries carry a 1 year full, 9 year pro-rated limited warranty. Important note: Battery warranty is limited to certain environmental, operational and installation limitations (refer to detailed Battery Warranty Terms and Conditions).



WARRANTY:

Electronics Assembly

Inverter Systems, Inc. warrants the ISI-LV electronics assembly (except batteries) against defects in material and workmanship for a period of one year from date of shipment. Inverter Systems, Inc. will either repair or replace any properly installed ISI-LV system which fails under normal operating conditions provided that it is returned to the factory, transportation prepaid, and our inspection determines it to be defective under the terms of this warranty.

The warranty covers only equipment other than batteries manufactured by Inverter Systems, Inc. and does not extend to transportation, installation or replacement charges, nor does it apply to any other equipment of another manufacturer used in conjunction with ISI equipment. No other warranty expressed or implied exists beyond that included in this statement.

*TWO YEAR WARRANTY WHEN START-UP SERVICE IS PURCHASED