

ISI ABC2 Series

"ALL BASES COVERED" Inverter



Inverter Systems, Inc.

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MINI EMERGENCY POWER 110 AND 220 MODELS

For LED, Incandescent, Induction, and
Fluorescent



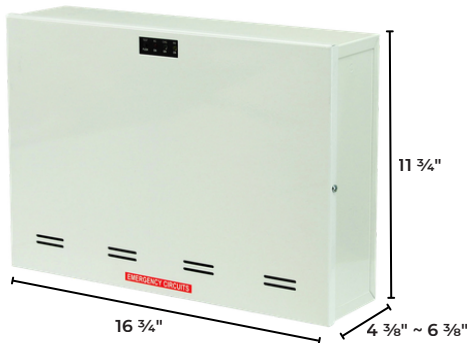
UL 924 Listed
Self-Testing
Self-Diagnostic



Less than
1.0 Second
Transfer Time

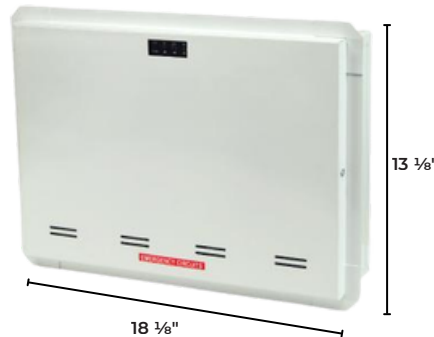


Buy
American Act
Compliant



ABC2 Mini

Packs exceptional functionality into a compact housing, available in 110 or 220 watt capacities.



ABC2 Mini Recessed

Delivers all the features offered by the ABC Mini 110 can be installed in areas where low-profile functionality is required.



ABC2 Mini T-Line

Matches the Mini 110 on features and has been specifically designed for use with T-bar ceilings blending in beautifully.

STANDARD FEATURES

- UL924 Listed
- 98% Efficiency at Full Rated Load (Line)
- Maintenance free, sealed lead-calcium battery (10 year life)
- Less than 1.0 second transfer time
- 90 minutes standard runtime
- "Soft start" design reduces fixture inrush current
- Normally-on or normally-off load output
- Protection: Low voltage battery disconnect protects battery from being damaged by deep discharge during prolonged power failures
- Momentary test switch
- LED Indicators: AC-ON, Charge-ON, and Inverter-ON
- Cooling: Natural convection - No fans
- Structure: Heavy duty steel cabinet is finished in white baked on powder paint providing scratch and corrosion resistance.

SPECIFICATIONS

- **Input** Voltage: Field Selectable at 120VAC or 277VAC $\pm 10\%$
Frequency: 60 Hz ± 2 Hz
Protection: AC Line Fuses
- **Output** Voltage: 120VAC or 277VAC, 60 Hz
Distortion: Less than 3% THD
Frequencies: 60 Hz ± 0.3 Hz during emergency cycle.
Waveform: Sinusoidal (digitally controlled)
Protection: Line and inverter fuses.
- Battery Voltage 24 VDC for ABC2-110 and 48 VDC for ABC2-220
- Static Voltage: $\pm 5\%$ during battery discharge. 0-100% linear load.
- Load Power Factor: 0.44 lead to 0.44 lag.
- Operating Temp: 20 to 30°C
- Altitude: <10,000 feet above sea level without derating
- Relative humidity: <95% non-condensing
- Charger Type: Fully automatic, temperature compensated, dual-mode.
- Power consumption: 15w max (2.5w standby) for 110 model and 30w max (5w standby) for 220 model.
- Recharge Duty Cycle: Meets UL924 requirements
- Battery Circuit Breaker: Also used as battery isolator
- Safety Circuitry: AC lockout prevents battery discharge prior to initial unit power-up

ISI ABC2 SERIES

Mini Emergency Power Source

Systems 110 VA/W to 220 VA/W

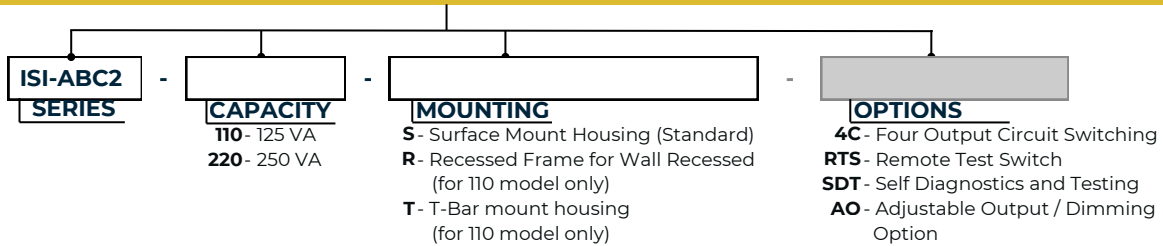


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ORDERING GUIDE

EXAMPLE MODEL # ISI-ABC2-110-T-SDT

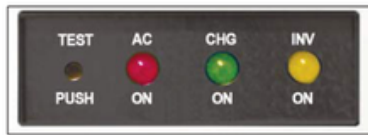


 = Required feature for part number.

 = Optional feature. Not required for part number.

The ABC Series is designed to provide up to 220W/250VA of emergency power to incandescent fixtures. The unit provides clean sinusoidal AC power allowing it to be remotely up to 1000 feet away from the controlled fixture(s).

Unlike a ballast fluorescent emergency pack, the ABC inverter provides power to the input side of the fixture, (including the ballast) eliminating any chance of incompatibility. The ABC Series is designed primarily for surface mounting, however, the ABC-110/125 models provide optional housings for recessed or ceiling T-Grid mounting if required. All ABC systems will provide emergency power output for a minimum of 90-minutes.



All ABC Systems provide a monitoring panel on the front of the unit to show operating status at all times. The panel provides a test switch for user initiated system tests and a 3-LED array that provides an intuitive visual indication of unit readiness.

Compared to traditional discrete emergency lighting units, the ABC2 Series provides emergency illumination from a single power source resulting in lower maintenance overhead and routine testing expenses.

ABC2 units lower installation costs by powering existing lighting fixtures during emergencies. And because connected fixtures are driven at full brilliancy, they provide far superior egress lighting and deliver improved occupant safety.

WARRANTY

Inverter Systems, Inc. warrants the ISI-ABC2 electronics assembly (except batteries) against defects in material and workmanship for a period of three years from date of shipment. Inverter Systems, Inc. will either repair or replace any properly installed ISI-ABC2 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.

BATTERY WARRANTY

Sealed lead calcium batteries carry a 1 year full, 7 year pro-rated limited warranty.

Important note: Battery warranty is limited to certain environmental, operational and installation limitations.

DIMENSIONS

Electronics Module					Charger Power Consumption (Charger only)		Battery Voltage
Partial Model Number	Power Rating (W / VA)	Cabinet Dimensions					
		Width (inches)	Height (inches)	Depth (inches)	Base	Standby	
ISI-ABC2-110	110 / 125	16 ¾	11 ¾	4 ⅜	15w max	2.5	24
ISI-ABC2-110-R	110 / 125	18 ⅛	13 ⅛	- - -	15w max	2.5	24
ISI-ABC2-110-T	110 / 125	23 ⅛	8	6 ⅛	15w max	2.5	24
ISI-ABC2-220	220 / 250	16 ¾	11 ¾	6 ⅜	30w max	5	48

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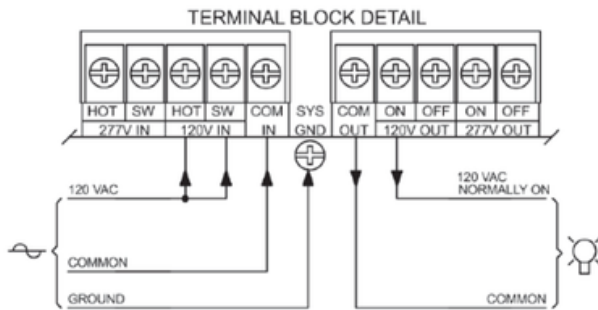
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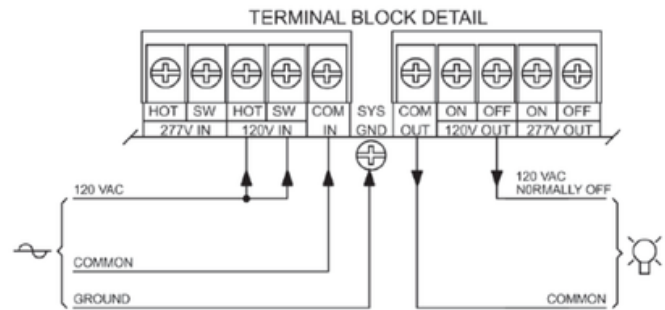
WIRING DIAGRAM

120VAC Connections

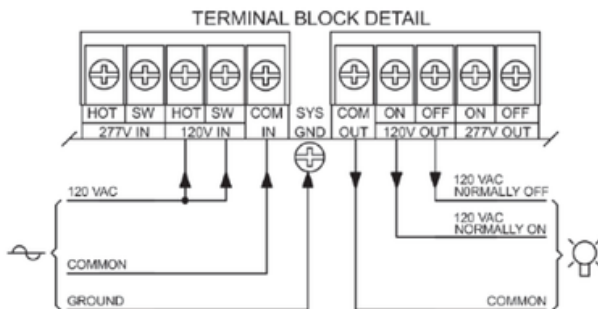
A) NORMALLY ON LOADS



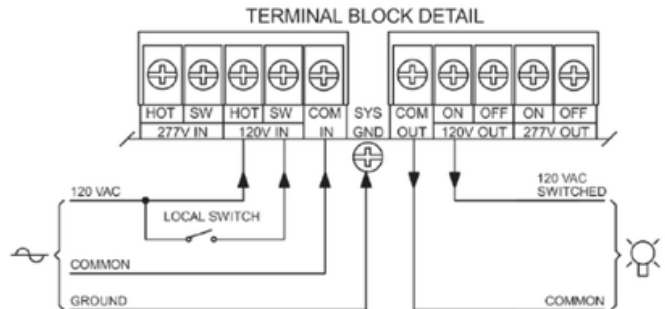
B) NORMALLY OFF LOADS



C) NORMALLY ON & OFF LOADS

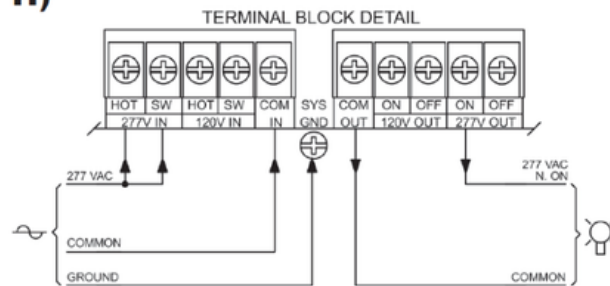


D) SWITCHED LOADS

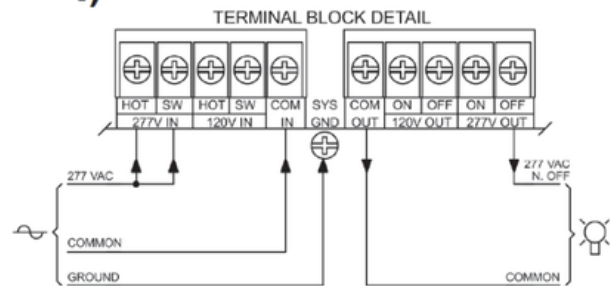


277VAC Connections

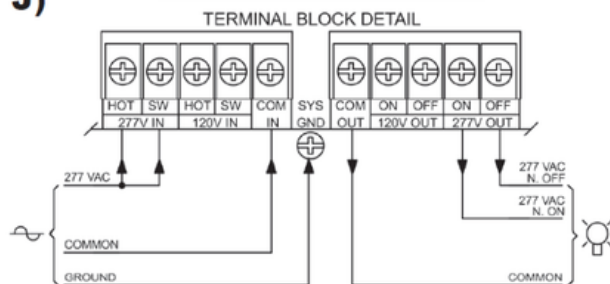
H) NORMALLY ON LOADS



I) NORMALLY OFF LOADS



J) NORMALLY ON & OFF LOADS



K) SWITCHED LOADS

