

**550 WATT**  
EMERGENCY POWER

**DR** DIMMING RELAY  
OPTION AVAILABLE



MODEL NO: \_\_\_\_\_  
TYPE: \_\_\_\_\_  
PROJECT: \_\_\_\_\_  
COMMENTS: \_\_\_\_\_

## LOAD CAPABILITY

550 Watts

## FIXTURE TYPES

LED (At 20% de-rated load capability)  
Fluorescent  
Incandescent

## DESCRIPTION

The IOTA **IIS 550 I** is a UL Listed stand-alone sine wave output inverter designed to provide power to designated emergency lighting fixtures. In a power loss situation, the IOTA **IIS 550 I** will supply **550W** of power from the onboard battery supply. The IOTA **IIS 550 I** works in conjunction with incandescent, LED, and fluorescent lamp and fixture types and will automatically run switched, normally-on, or normally-off designated emergency fixtures. The **IIS 550 I** is ideal for applications requiring an emergency source for lighting arrangements that utilize multiple lamp and fixture types. The **IIS 550 I** is available in a surface mount housing and comes with a three-year warranty and seven-year pro-rata battery warranty.

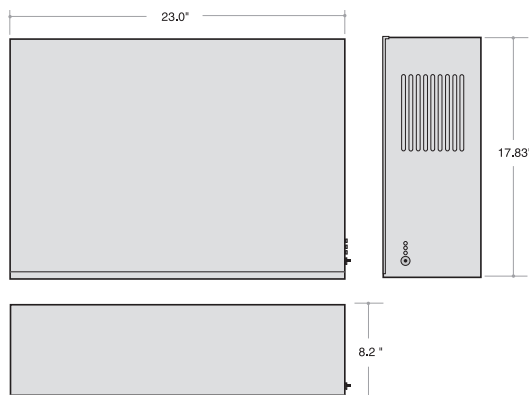
## SPECIFICATIONS

Input Voltage ..... (Dual) 120/277V, 60Hz  
Input Rating (bulk)..... 675 Watts  
Output Voltage ..... (Dual) 120/277V, 60Hz  
Output Power ..... 550 Watts (@ .9 leading to .9 lagging PF)  
Lamps Operated ..... LED\*, Fluorescent, Incandescent  
Transfer Time ..... less than 1 second  
Emergency Operation ..... 90 minutes  
Voltage Regulation (emergency)..... +/- 2% @ 15% to 110% load  
Frequency Regulation (emergency)..... +/- .5%  
Load Power Factor Range ..... .9 leading to .9 lagging  
Operating Temp..... 20° to 30° C  
Battery..... Valve Regulated Lead Acid (VRLA)  
Weight..... 145 lbs.  
Approval..... UL 924 Listed

\*20% de-rating required for LED applications



## DIMENSIONS



## FEATURES

- Pure sine wave output
- Operates incandescent, LED, and fluorescent fixtures including fixtures with dimmable fluorescent ballasts or LED drivers
- Includes momentary contact test switch, yellow ready indicator, green inverter-on indicator, and red charging indicator
- Dual voltage 120/277 60Hz
- High efficiency pure sine wave inverter
- Variable-rate, temperature-compensated charger
- Valve Regulated Lead Acid (VRLA) battery provides long life and is maintenance free
- Line voltage allows for remote mounting of emergency fixtures at distances up to 1000 feet
- Resettable output circuit breaker provides protection against circuit overload
- Low Battery Voltage Disconnect and Line Latch Protection
- Allows for emergency operation of switched or unswitched fixtures
- Dimming Relay option for dimming control applications
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements
- Durable 16-gauge steel housing design with white semi-gloss powder-coat paint finish
- 3/7 Pro-Rata Warranty



# IIS 550 I

550W SURFACE MOUNT UNIT INVERTER SYSTEM

## ORDERING GUIDE

IIS 550 I

**DR** Dimming Relay  
(Optional) See below for application details.

(blank) No Dimming Relay.

## COMPONENTS

- High-efficiency pure sine wave inverter
- Variable-rate, temperature-compensated charger
- 12V maintenance-free Valve Regulated Lead Acid (VRLA) battery

## CONSTRUCTION

- 16-gauge steel housing

## IIS 550 I SAMPLE SPECIFICATION

Emergency lighting shall be provided by inverter unit equipment designed to operate designated fluorescent, incandescent, and LED fixtures on emergency power at their full nominal lumen rating during the full 90 minute emergency discharge cycle. System output will be rated at 550 watts for 90 minutes and provided with an output circuit breaker for protection of overload or load fault conditions. The system's voltage rating shall be field selectable 120 or 277 VAC input/output.

The inverter unit shall allow for connected emergency fixture(s) to be normally on, normally off, switched or dimmed without affecting lamp operation during a power failure. Upon utility power loss, the inverter unit shall operate the load at 100% of its full rated output regardless of the local switch position, and will provide power to emergency fixtures at distances of up to 1000 feet.

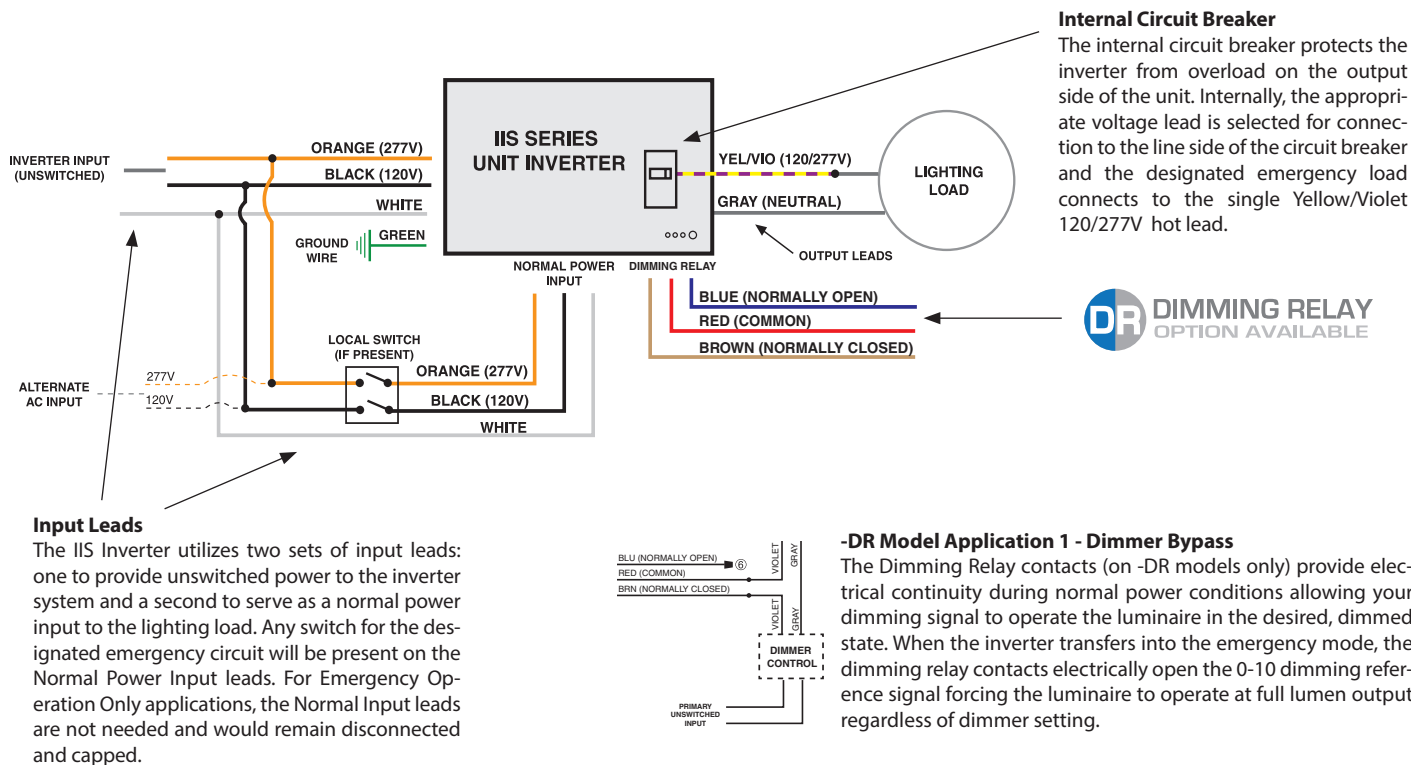
The housing shall be designed for surface mount installation requirements and manufactured using 16-gauge steel with a white hammer semi-gloss scratch-resistant baked-on powder coat paint finish.

The unit's electronics shall include a self-contained inverter section with a fully automatic, thermal-compensating variable-rate battery charger, AC lockout feature, low battery voltage disconnect, DC overload, short circuit and brownout protection as standard. The unit shall utilize a sealed lead calcium battery with a 10-year design life. The inverter system shall be UL 924 Listed and labeled. The unit shall be covered under a 3-year warranty on the electronics and battery and a 7-year pro-rata warranty on the battery. It shall meet or exceed the requirements of UL 924, NFPA 101 Life Safety Code, NFPA 70 National Electrical Code, OSHA and State and Local codes.

The inverter unit shall be IOTA model **IIS 550 I**.

\*20% de-rating required for LED applications

## TYPICAL WIRING



**Warranty:** 3-Year Limited Warranty

Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)