

# IIS-550-I

**550 WATT**  
EMERGENCY POWER

FOR  
FLUORESCENT,  
INCANDESCENT,  
AND LED LOADS



**DR** DIMMING RELAY  
OPTION AVAILABLE

OPERATES:



FLUORESCENT



LED



INCANDESCENT

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** features a surface mount housing and comes with a three-year warranty and seven-year pro-rata battery warranty.

## TECHNICAL SPECIFICATIONS

Input Voltage .....	(Dual) 120/277V, 60Hz
Input Rating (bulk) .....	675 Watts
Output Voltage .....	(Dual) 120/277V, 60Hz
Output Power .....	550 Watts
	at .9 leading to .9 lagging PF
Lamps Operated .....	LED, Fluorescent, Incandescent
Transfer Time .....	less than 50 milliseconds
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

## FEATURES

- Emergency lighting supplied from one convenient source
- 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
- Line Latch Protection
- Allows for operation of switched 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

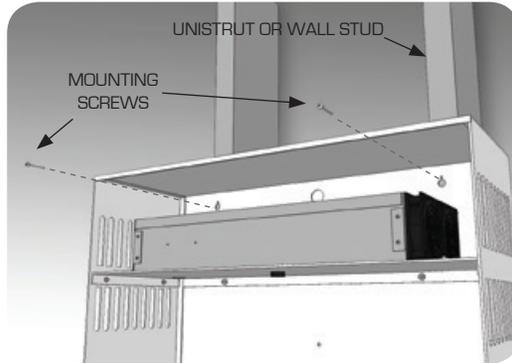


**ORDERING GUIDE**

Use the Ordering Guide below to determine the Catalog # of the model required for your application.

**IIS-550-I-**  

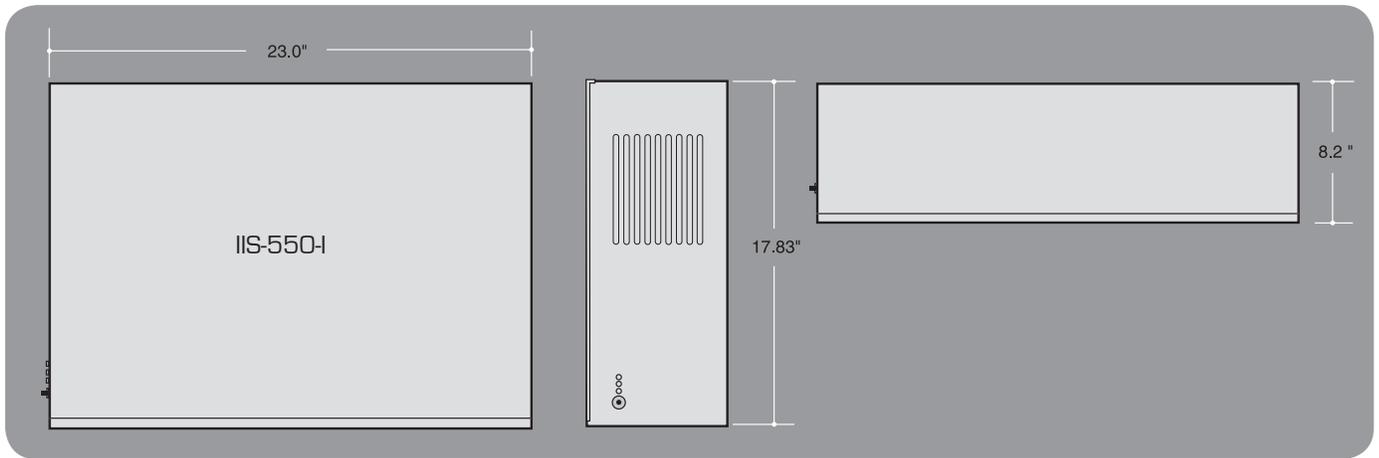
**Surface Mount** design for surface or shelf mounting. Keyhole slots at the back of the unit are spaced for secure mounting to the wall's unistrut or studs. After AC supply and fixture leads are routed to the wall location, the IIS-550-I is secured to the wall unistrut or studs. Dual knockouts are present on the sides of the unit for separate input and output conduits external to the wall if needed. An additional hole is provided to prevent inadvertent lifting of the unit from the keyholes. Always consult local codes for structural requirements when mounting the unit.



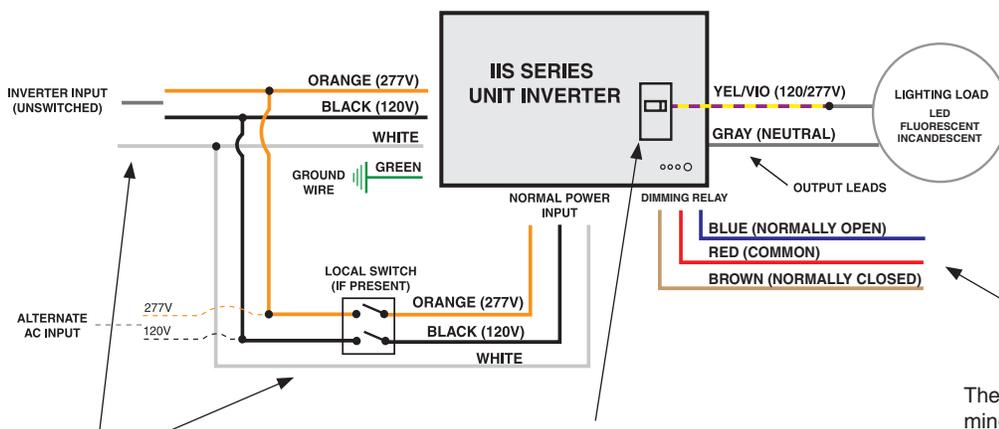
**DR** Dimming Relay (Optional) Refer to Page 14 for DR application details.

**(Blank)** No Dimming Relay option.

**DIMENSIONS**



**WIRING**



**DR** DIMMING RELAY OPTION AVAILABLE

**INPUT LEADS**

The IIS Inverter utilizes two sets of input leads: one to provide unswitched power to the inverter system and a second to serve as a normal power input to the lighting load. Any switch for the designated emergency circuit will be present on the Normal Power Input leads. For Emergency Operation Only applications, the Normal Input leads are not needed and would remain disconnected and capped.

**INTERNAL CIRCUIT BREAKER**

The internal circuit breaker protects the inverter from overload on the output side of the unit. Internally, the appropriate voltage lead is selected for connection to the line side of the circuit breaker and the designated emergency load connects to the single Yellow/Violet 120/277V hot lead.

The dimming relay leads allow for a dimming signal to operate the luminaires in the desired, dimmed state during normal operation. The IIS inverter will then bypass the dimming control to operate fixtures at full light output in the event of a loss of normal AC power. Additionally, if desired, the dimming leads can be wired to operate the luminaires at a reduced lumen output setting based on the dimmable driver(s) being used during emergency operation. Refer to Page 14 for details.