# IIS-375-I

INTERRUPTIBLE 375 WATT UNIT EQUIPMENT

**MODEL NO:** _____

**TYPE:** _____

**PROJECT:** _____

**COMMENTS:** _____

**375W LOAD CAPABILITY**

Operates
**INCANDESCENT**
**LED**
**FLUORESCENT FIXTURES**

## DESCRIPTION

The IOTA **IIS-375-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-375-I** will supply **375W** of power from the onboard battery supply. The IOTA **IIS-375-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-375-I** is ideal for applications requiring an emergency source for lighting arrangements that utilize multiple lamp and fixture types. The **IIS-375-I** is available in a surface mount housing and comes with a three-year warranty and seven-year pro-rata battery warranty.

## LOAD CAPABILITY

375W (Unity Power Factor)

## LAMPS OPERATED

Incandescent

LED

Fluorescent lamps and ballast combinations, incl. dimming ballasts

## COMPONENTS

High-efficiency SPWM inverter

Variable-rate, temperature-compensated charger

12V oversized Valve Regulated Lead Acid (VRLA) battery

## CONSTRUCTION

18-gauge steel housing

Surface or shelf mount design

## DIMENSIONS AND WEIGHT

| **IIS-375-I** | |
|---|---|
| 23″ x 17.83″ x 8.2″ | 114 lbs |

## FEATURES

- UL 924 Listed
- Emergency lighting supplied from one convenient source
- Sine wave output
- Operates incandescent, LED, and fluorescent fixtures including fixtures with dimmable fluorescent ballasts
- Includes momentary contact test switch, yellow ready indicator, green inverter-on indicator, and red charging indicator
- Dual voltage 120/277 60Hz
- 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
- Low Voltage Disconnect and Line Latch Protection Features
- Electronic overload prevention safeguard will operate load at 110% for ten minutes before shutting down
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements
- Durable surface mount design with white semi-gloss powder-coat paint finish
- 3/7 Pro-Rata Warranty

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# IIS-375-I

**INTERRUPTIBLE 375W INVERTER UNIT EQUIPMENT**

## RATINGS AND SPECIFICATIONS

| RATINGS |
|---|
| **Input:**<br>120/277 Volts, 60 Hz, 500 Watts |
| **Output:**<br>120/208/240/277 Volts, 60 Hz, 375 Watts<br>at .9 leading to .9 lagging PF |

| SPECIFICATIONS |
|---|
| **Transfer Time:**<br>less than 50 milliseconds |
| **Voltage Regulation on Emergency:**<br>+/- 2% @ 15% to 110% load |
| **Frequency Regulation on Emergency:**<br>+/- .5% |
| **Output Distortion on Emergency:**<br>less than 2% THD linear load |
| **Load Power Factor Range:**<br>.9 leading to .9 lagging |
| **Electrical Operating Temperature:**<br>0° to 40°C (32° to 104°F) |
| **Battery Operating Temperature:**<br>Full capacity at 25°C (77° F)<br>Optimum performance at 20° to 30°C (68° to 86°F).<br>Temperatures outside this range will affect battery performance and life expectancy. |

## SPECIFICATION SAMPLE

Emergency lighting shall be provided by inverter unit equipment designed to operate designated incandescent, fluorescent and LED fixtures on emergency power at their full nominal lumen rating during the full 90 minutes emergency discharge cycle. System output will be rated at 375 watts for 90 minutes and provide an electronically fused output connection to the load. 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 emergency fixture shall deliver full rated output regardless of the local switch's 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 18-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 an additional 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 Engineering model IIS-375-I.




All IOTA products receive 100% quality inspection before shipment to insure proper and satisfactory operation. When operated under normal conditions, IOTA inverter products will provide years of dependable service. This unit is backed by a 3/7 year warranty. The unit is covered by a complete 3-year warranty against defects in material or workmanship, and a 7-year pro-rata battery warranty.



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