



MODEL NO: \_\_\_\_\_

TYPE: \_\_\_\_\_


PROJECT: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

#### UNINTERRUPTIBLE 350W LOAD CAPABILITY

Operates  
HID  
INCANDESCENT  
LED  
FLUORESCENT FIXTURES

#### FEATURES

- UL 924 Listed
- 
- Uninterruptible sine wave output
  - Operates HID, incandescent, LED, and fluorescent fixtures including fixtures with dimmable fluorescent ballasts
  - Emergency lighting supplied from one convenient source
  - Includes momentary contact test switch, yellow ready indicator, green inverter-on indicator, and red alarm indicator
  - 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 finish
  - 3/7 Pro-Rata Warranty

#### DESCRIPTION

The IOTA **Uninterruptible IIS-350-U** 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-350-U** will supply **350W** of power from the onboard battery supply. The double-conversion design of the **IIS-350-U** delivers power with no interruption to the load, allowing 'no-break' operation of HID, incandescent, LED, and fluorescent lamp and fixture combinations. The **IIS-350-U** is available in a surface mount housing and comes with a three-year warranty and seven-year pro rata battery warranty.

#### LOAD CAPABILITY

350W

#### LAMPS OPERATED

HID  
Incandescent  
LED  
Fluorescent lamps and ballast combinations, incl. dimming ballasts

#### COMPONENTS

High-efficiency SPWM inverter  
Switch-mode charger provides filtered and regulated output to battery and inverter  
12V oversized Valve Regulated Lead Acid (VRLA) battery

#### CONSTRUCTION

16-gauge steel housing  
Surface or shelf mount design

#### DIMENSIONS AND WEIGHT

IIS-350-U and IIS-350-UM	
23" x 17.83" x 8.2"	116 lbs

# IOTA

## ENGINEERING

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# IIS-350-U

UNINTERRUPTIBLE 350W INVERTER UNIT EQUIPMENT

## RATINGS AND SPECIFICATIONS

RATINGS
<b>Input:</b> 120 Volts, 60 Hz 535 Watts at .65 lagging power factor (float charge) 750 Watts at .65 lagging power factor (bulk charge)
<b>Output (IIS-350-U):</b> 120 Volts, 60 Hz, 350 Watts at .9 leading to .9 lagging PF
<b>Output (IIS-350-UM):</b> 120/208/240/277 Volts, 60 Hz, 350 Watts at .9 leading to .9 lagging PF

SPECIFICATIONS
<b>Transfer Time:</b> Uninterruptible (no transfer time)
<b>Voltage Regulation:</b> +/- 2% @ 15% to 110% load
<b>Frequency Regulation:</b> +/- .5%
<b>Load Power Factor Range:</b> .9 leading to .9 lagging
<b>Operating Temperature:</b> 20° to 30°C (68° to 86°F)

## ORDERING GUIDE

The **IOTA IIS-350-U** is available in two models (IIS-350-U and IIS-350-UM) for use with various load voltages.

IIS-350-

**U** (120VAC)

The IIS-350-U accepts 120VAC input and provides 120VAC output to the lighting load.

**UM** (MULTI-TAP)

The IIS-350-UM accepts 120VAC input and utilizes a multi-tap transformer for 120/208/240/277VAC lighting loads.

## SPECIFICATION SAMPLE

Emergency lighting shall be provided by inverter unit equipment designed to operate designated HID, 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 350 watts for 90 minutes and provide an electronically fused output connection to the load. The system's voltage rating shall be factory-supplied 120 VAC input/output (model -U) or 120 VAC input with 120/208/240/277 VAC output (model -UM).

The inverter unit shall allow for connected emergency fixture(s) to be normally on. Upon utility power loss, the inverter unit shall deliver 100% of its full rated output with no break in illumination, 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 Engineering model IIS-350-U or UM.



## WARRANTY

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.