



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

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

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

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

### 125W LOAD CAPABILITY

Operates  
**INCANDESCENT  
LED  
FLUORESCENT FIXTURES**

### FEATURES

- UL 924 Listed



- Emergency lighting supplied from one convenient source
- 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
- Replaceable output fuse protection
- 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 Battery Voltage Disconnect
- Line Latch Protection
- Flying Leads for operating switched fixtures
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements
- Three convenient cabinet options to fit any application - Recessed T-bar Ceiling Grid, Recessed Wall, and Surface Wall mounting in white semi-gloss powder-coat paint finish
- 3/7 Pro-Rata Warranty

### DESCRIPTION

The IOTA **IIS-125** is a UL Listed stand-alone simulated sine wave output inverter designed to provide power to designated emergency lighting fixtures. In a power loss situation, the IOTA **IIS-125** will supply **125W** of power from the onboard battery supply. The IOTA **IIS-125** 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-125** is ideal for applications requiring an emergency source for lighting arrangements that utilize multiple lamp and fixture types. The **IIS-125** is available in three mounting configurations (ceiling grid, recessed wall, and surface mount) and comes with a three-year warranty and seven-year pro-rata battery warranty.

### LOAD CAPABILITY

125W

### LAMPS OPERATED

Incandescent

LED

Fluorescent lamps and ballast combinations, incl. dimming ballasts

### COMPONENTS

High-efficiency modified sine wave inverter

Variable-rate, temperature-compensated charger

12V oversized Valve Regulated Lead Acid (VRLA) battery

### CONSTRUCTION

18-gauge steel housing

Ceiling Grid, Surface Mount, or Recessed Wall configuration

### DIMENSIONS AND WEIGHT

<b>IIS-125-CG</b>		
HOUSING: 6.6" x 23.75" x 8.39" w/ FACEPLATE: 8.0" x 23.75" x 8.39"		42.5 lbs
<b>IIS-125-RW</b>		
HOUSING: 13.88" x 22.0" x 3.88" w/ FACEPLATE: 14.50" x 22.62" x 3.92"		49 lbs
CUT-OUT: 13.125" wide x 22.25" high with 4" depth		
<b>IIS-125-SM</b>		
23.15" x 11.71" x 4.5"		46 lbs

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# IIS-125

INTERRUPTIBLE 125W INVERTER UNIT EQUIPMENT

## RATINGS AND SPECIFICATIONS

RATINGS
<b>Input:</b> 120/277 Volts, 60 Hz 135 Watts (float charge) 150 Watts (bulk charge)
<b>Output:</b> 120/277 Volts, 60Hz, 125 Watts at .9 leading to .9 lagging PF

SPECIFICATIONS
<b>Transfer Time:</b> less than 50 milliseconds
<b>Voltage Regulation on Emergency:</b> +/- 10%
<b>Frequency Regulation on Emergency:</b> +/- 3%
<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-125 is available in three models designed for various installation applications. All 125W units feature dual voltage capability for 120VAC or 277VAC loads.

### IIS-125-

#### SM (SURFACE MOUNT)

The IIS-125 Surface Mount model is installed directly to the wall or other surface. Keyhole slots at the back of the unit are spaced for secure mounting to the wall studs or unistrut.

#### CG (CEILING GRID)

The IIS-125 Ceiling Grid model mounts across the 2 ft. T-bars of a grid ceiling. Support wires are then connected to the mounting tabs at the top of unit.

#### RW (RECESSED WALL)

The IIS-125 Recessed Wall model is designed for installation within the wall. T-slots are provided on the sides of the unit for secure mounting between the wall studs of the building framework. Cutout in the wall for the IIS-125-RW is 13.125" wide by 22.25" high, with a wall depth of 4" from the front of the sheet-rock.

## 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 125 watts for 90 minutes and provide fused output connections 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 inverter unit shall deliver 100% of its rated output to the emergency fixtures regardless of the local switch or dimmer position, and will provide power to emergency fixtures at distances of up to 1000 feet.

The housing shall be designed for *choose one*, (ceiling grid, recessed wall, surface) 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 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-125 – (Insert suffix for cabinet type).



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.