



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
- 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 (Unity Power Factor)

LAMPS OPERATED

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

COMPONENTS

High-efficiency simulated 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

IIS-125-CG	
HOUSING: 6.6" x 23.75" x 8.39" w/ FACEPLATE: 8.0" x 23.75" x 8.39"	42.5 lbs
IIS-125-RW	
HOUSING: 13.88" x 22.0" x 3.88" w/ FACEPLATE: 14.50" x 22.62" x 3.92" CUT-OUT: 13.125" wide x 22.25" high with 4" depth	49 lbs
IIS-125-SM	
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
Input: 120/277 Volts, 60 Hz, 155 Watts
Output: 120/277 Volts, 60Hz, 125 Watts at .9 leading to .9 lagging PF

SPECIFICATIONS
Transfer Time: less than 50 milliseconds
Voltage Regulation on Emergency: +/- 10%
Frequency Regulation on Emergency: +/- 3%
Output Distortion on Emergency: less than 5% THD linear load
Load Power Factor Range: .9 leading to .9 lagging
Electrical Operating Temperature: 0° to 40°C (32° to 104°F)
Battery Operating Temperature: Full capacity at 25°C (77° F) Optimum performance at 20° to 30°C (68° to 86°F). Temperatures outside this range will affect battery performance and life expectancy.

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. Keyhole slots at the back of the unit are spaced for secure mounting to the wall's unistrut or studs.

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 not less than 90% of their 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 emergency fixture shall deliver a minimum of 90% of its 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 *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 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-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.