

PRODUCT SPECIFICATION SHEET

750 WATT EMERGENCY POWER

1 2 3 THREE-ZONE
EMERGENCY POWER

CERTIFIED IN
TITLE
20
Certified in CA TITLE 20
Appliance Efficiency Database -
Battery Charger

QUALIFIED TO
NEMA 410
STANDARDS

IR IN RUSH
CAPABILITY

DR DIMMING RELAY

MONTHLY AND ANNUAL
SELF-DIAGNOSTICS



DESCRIPTION

The IOTA® IIS 750 is a UL Listed stand-alone pure sine wave output inverter designed to provide power to designated emergency lighting fixtures. In a power loss situation, the IOTA IIS 750 will supply **750 watts** of emergency power from the onboard battery supply. The IOTA IIS 750 works in conjunction with LED, incandescent, and fluorescent lamp and fixture types and will automatically run switched, normally-on, or normally-off designated emergency fixtures. The IIS 750 includes self-testing/self-diagnostics and will automatically conduct required monthly and annual tests. The IOTA IIS 750 features increased inrush capability to prevent shutdown caused by inrush currents, allowing operation of loads at the full rated output of the unit with no need for circuit de-rating. The IIS 750 is designed for high-efficiency performance and is certified in the CA Title 20 Appliance Efficiency Database. The IIS 750 features three sets of switched input and dimming leads, allowing for emergency power and dimming control on three different designated circuits. The IIS 750 is available in a surface mount housing and comes with IOTA's standard one-year electronics warranty and ten-year pro-rata battery warranty.

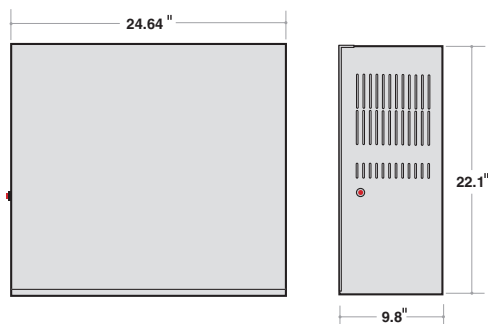
SPECIFICATIONS

Input Voltage	(Universal, 2-wire) 120-277V, 60Hz
Output Voltage	(auto-detect) 120/277V, 60Hz
Emergency Output Power	750 Watts / 835VA
Unswitched Input Rating	300W max @ 0.9 PF (120VAC)*
Switched Input Rating (total)	835VA (@0.5 leading to 0.5 lagging PF)
Lamps Operated	LED (per NEMA 410), Fluorescent, Incandescent
Transfer Time	less than 1.3 seconds
Surge Protection	Meets ANSI/IEEE C62.41.2-2002
Emergency Operation	90 minutes
Frequency Regulation (emergency)	0.33% (0.2Hz)
Operating Temp	20° to 30° C
Battery	Valve Regulated Lead Acid (VRLA)
Weight	232 lbs.
Certifications	UL 924 Listed for U.S. and Canada CSA C22 No. 141 Unit Equipment for Emergency Lighting CA T20 Appliance Efficiency Database

* PF is ≥ 0.6 for 227VAC



DIMENSIONS



MODEL NO: _____
TYPE: _____
PROJECT: _____
COMMENTS: _____

LOAD CAPABILITY

750 Watts


FIXTURE TYPES

LED
Fluorescent
Incandescent

Product Advantages

- **High Efficiency Performance meets CA T20 battery charger efficiency standards**
- **Operates loads to its fully-rated capacity. Inrush capability eliminates need for circuit de-rating.**
- **Full light output in the emergency mode**
- **Automatically conducts required monthly and annual testing**
- **Three sets of Zone Input leads allow delivery of emergency power to three different circuits.**
- **Dimming Relays for 0-10V dimming applications**

FEATURES

- Pure sine wave output
- Operates LED, incandescent, and fluorescent fixtures
- Includes multi-purpose momentary contact test switch, charging and self-test indicator
- High efficiency pure sine wave inverter
- Variable-rate, high-efficiency charger
- Valve Regulated Lead Acid (VRLA) battery provides long life and is maintenance free
- Allows for emergency operation of switched or unswitched fixtures
- Line voltage allows for remote mounting of emergency fixtures at distances up to 1000 feet per zone
- Low Battery Voltage Disconnect and Line Latch Protection
- Includes field-selectable audible alarm indicator
- 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
- RoHS Compliant 
- Covered by IOTA's standard 1-Year Warranty on all electronic components and 10-year pro-rated warranty on batteries.



750W SURFACE MOUNT UNIT HIGH-EFFICIENCY INVERTER SYSTEM

ORDERING GUIDE

IIS

750

120/277

90M

HE

SD

3ZONE

DR3

AI

SC

Understanding Your IOTA Inverter Model:

IIS = IOTA Inverter System

750 = Load Capacity (in watts)

120/277 = Input Voltage Range

90M = 90 Minute Emergency Operation*

HE = High Efficiency for CA Title 20

SD = Self-Testing/ Self-Diagnostics

3ZONE = Features three separate emergency output circuits to deliver emergency power to up to three different

DR3 = Three dimming relay leads (1 per circuit)

AI = Audible Indicator (can be turned on or off)

COMPONENTS

- High-efficiency pure sine wave inverter
- Variable-rate, high-efficiency charger
- 12V maintenance-free Valve Regulated Lead Acid (VRLA) battery

CONSTRUCTION

- 16-gauge steel housing

*This unit will service 30-minute and 60-minute requirements, as well as extended 120-minutes with properly de-rated load applications.

IIS 750 120/277 90M SAMPLE SPECIFICATION

Emergency lighting shall be provided by inverter unit equipment designed to operate designated LED, fluorescent, and incandescent fixtures on emergency power at their full nominal lumen rating during the full emergency discharge cycle. System output will be rated at 750 watts for **90 minutes**. The system's voltage rating shall be universal input 120-277Vac with auto-detecting 120 or 277 VAC output.

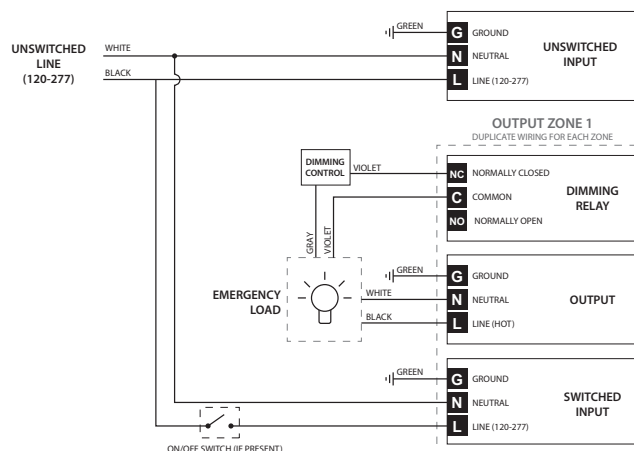
The inverter unit shall allow for **emergency operation of fixture(s) on three separate circuits** and to be normally on, normally off, switched or dimmed without affecting lamp operation during a power failure. Upon utility power loss, the inverter unit shall operate the load at 100% of its full rated output regardless of the local switch position, and will provide power to emergency fixtures at distances of up to 1000 feet per zone.

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 inverter circuitry with a fully automatic battery charging circuit, shall monitor and adjust the input power consumption, and be capable of automatically conducting required monthly and annual operational tests of the connected load. The unit shall be certified in the CA Title 20 Modernized Appliance Efficiency Database System (MAEDBS) as a small battery charger. The unit shall also include dimming relays for 0-10V dimming leads, an AC lockout feature, low battery voltage disconnect, 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 1-year warranty on the electronics and a 10-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 model **IIS 750 120/277 90M HE SD 3ZONE DR3 AI SC.**

TYPICAL WIRING



Warranty: 1-Year Limited Warranty

Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

IOTA REV 102121

IOTA Emergency Lighting

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