



# IIS Series

Emergency Mini-Inverters



Reliable Emergency Lighting Performance, for Almost Any Load Type...

IOTA® IIS Series Mini-Inverters provide emergency power to multiple emergency fixtures from a central source. These convenient solutions deliver auxiliary AC power in the event of a utility power loss, which enables a wide array of emergency egress lighting designs incorporating LED, fluorescent, and/or incandescent lights. IOTA offers an extensive portfolio of Mini-Inverter solutions for multiple load size capacities with design features for applications with lighting controls or outdoor egress paths.



IOTA IIS Mini-Inverters are ideal solutions for many applications, including:

- Office Spaces
- Retail/Restaurant
- Stairwells
- Areas with Elevated Fixtures
- Outdoor Paths of Egress



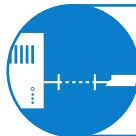
### Full Light Output

Operates designated emergency fixtures at full brightness for optimal path of egress safety.



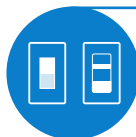
### Load Capability

Incorporate LED, incandescent, fluorescent, or a mixture of each as part of the emergency egress system.



### Remote Operation

Power fixtures at significant distances to reach exterior egress paths where other emergency options are limited.



### Controls Compatibility

Safely incorporate on/off and 0-10V dimming controls (select models only) on the emergency lighting circuit.



### Extended Runtime

Reducing the load size with respect to the inverter's full-load capacity allows runtime to be extended for 2-hour FEMA applications.



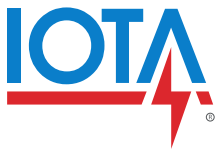
### NEMA 410 Rated for Inrush Protection

Supply emergency power to LED lights without de-rating the load size to avoid component damage due to inrush (select models only)



### High Efficiency Performance for California T20

Select IIS Series Mini-Inverters offer a high-efficiency design to help meet CA T20 energy efficiency requirements.



### Available IIS Mini-Inverter Models

Model	Load Size(s)	Voltage(s)	Certifications	0-10V Dimming Relays	Inrush Protection
IIS 125*	125 W	120/277VAC	UL 924 Listed for U.S. and Canada	Optional ("DR" model)**	NEMA 410 Rated†
IIS 125 HE*	125 W	120/277VAC	UL 924 Listed for U.S., CA Title 20	Included	NEMA 410 Rated†
IIS 250 HE DR	250 W	120-277VAC	UL 924 Listed for U.S. and Canada, CA Title 20	Included	NEMA 410 Rated†
IIS 375 I	375 W	120/277VAC	UL 924 Listed for U.S.	Optional ("DR" model)**	N/A
IIS 375 LED	375 W	120/277VAC	UL 924 Listed for U.S.	Optional ("DR" model)**	NEMA 410 Rated†
IIS 550 I	550 W	120/277VAC	UL 924 Listed for U.S.	Optional ("DR" model)**	N/A
IIS 550 HE	550 W	120-277VAC	UL 924 Listed for U.S., CA Title 20	Included	NEMA 410 Rated†
IIS 750	750 W	120-277VAC	UL 924 Listed for U.S. and Canada, CA Title 20	Included‡	NEMA 410 Rated†

\*Available in SM (surface mount) or CG (ceiling-grid) mounting styles. See specification sheet for details.

\*\*Include the "DR" suffix when ordering for 0-10V dimming relays.

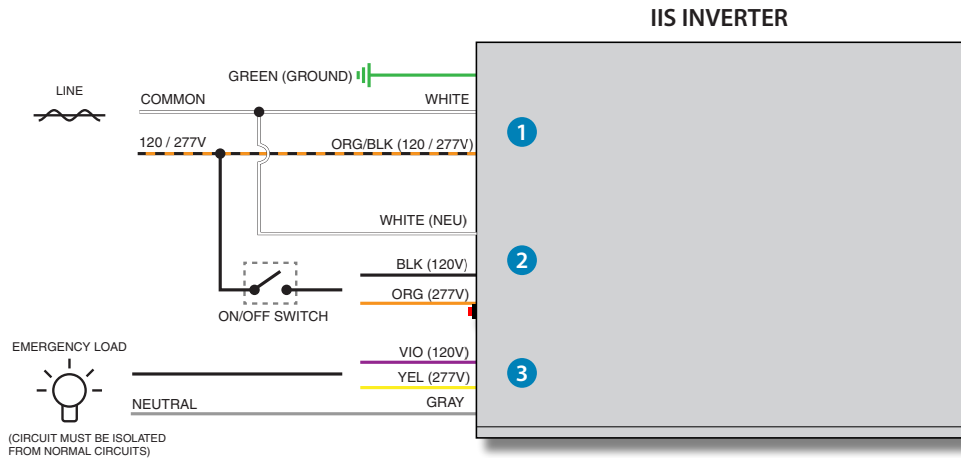
†Inrush capability eliminates need for circuit de-rating when powering LED Loads.

‡The IIS 750 includes three 0-10V dimming relays and three switched inputs to configure three unique lighting zones.

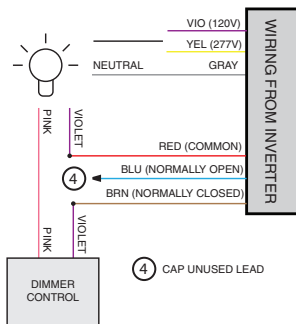
### Typical Wiring

The following diagram represents the typical connections for an IOTA IIS Mini-Inverter. Wire colors may vary between models. Consult the instruction manual for full wiring details.

- 1 Unswitched Input to charge the batteries and sense normal power**
- 2 Switched Input to control emergency fixtures during normal power conditions**
- 3 AC utility is passed through to the load during normal power conditions. If power is lost, the inverter delivers power from its batteries.**



### Dimming Relays



The Dimming Relay Leads can be used to accommodate a 0-10V dimming signal, allowing the load to operate at the desired dimmed setting, but enabling the inverter to bypass the dimmed state and operate the load at full brightness while in the emergency mode.

### Additional Product Features

- Durable Steel Cabinet with White Powder Coat Finish
- Long Life, Maintenance Free VRLA Batteries
- Low Battery Voltage Disconnect (LVD)
- AC Line-Latch Protection
- 3-Year Electronics Warranty / 7 Year Pro-rated Battery
- Warranty
- UL 924 Listed (select models are also UL Listed for use in Canada)

For more information on IOTA IIS Mini-Inverters, visit [www.iotaengineering.com](http://www.iotaengineering.com)