



IIS SERIES

## MICRO INVERTERS



### Explore the Power of Micro Inverter Solutions!

What is an IIS Micro Inverter? Micro Inverters are versatile solutions that provide emergency AC power to individual fixtures during a loss of normal power. While there are many different types of available products for providing emergency lighting, IIS Micro Inverters provide a unique and effective solution for applications that have particular requirements.

### Leverage the Advantages of Micro Inverters

Recognizing the capabilities of micro inverter solutions allows you to easily identify the optimal solution for meeting your project and application needs:



#### Full Light Output

Inverter solutions provide **AC power** to the fixture while in the emergency mode, allowing the fixture to operate just as it would during normal conditions. This results in full light output from the designated emergency fixture. Micro inverter performance surpasses embedded battery designs that typically operate the fixture at less-than-normal output. **Full light output is always a safe bet for high-bay or elevated ceiling installations.**



#### Load Versatility

Micro Inverters are capable of operating most any load type, such as LED, fluorescent, or incandescent lamps. The AC output does not distinguish between the type of connected load, as long as the load is compatible with the 120 or 277 micro-inverter VAC output. If the application uses incandescent or other **Edison-screw type lamps or a chip-on-board LED engine**, micro inverters are a perfect emergency solution.



#### Component Compatibility

The micro inverter is not an embedded component that has to be integrated into the luminaire, eliminating concerns about driver, LED, or ballast voltage compatibility. The AC output of the inverter **allows the fixture components to perform their functions in the emergency mode** just as they would during normal operation.



#### 1000 ft+ Remote Operation

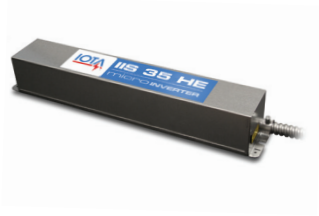
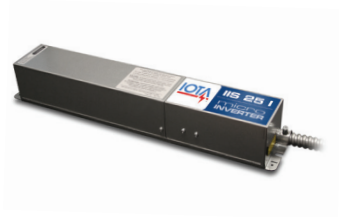
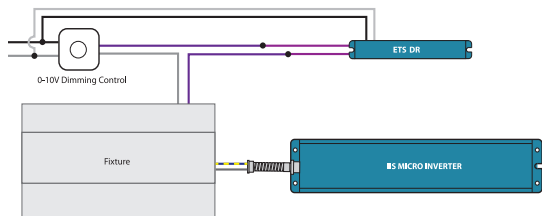
In some cases, a luminaire does not have the space for integrating an emergency battery pack. And sometimes opening a luminaire may compromise the fixture's integrity, such as with outdoor lighting or other IP-rated designs. Micro inverters provide a simple **external solution for remotely providing emergency power to bollards, exit lighting and other outdoor lighting hundreds of feet away.**



IOTA IIS Micro Inverters can be utilized in a variety of ways to match the application needs. See below for additional performance functionality...

Bypassing Local Controls

IIS Micro Inverters already feature dual input leads that bypass the fixture switch. However, any IIS Micro Inverter can easily connect to an IOTA ETS DR control device to bypass secondary controls or 0-10V dimming signals in the emergency mode.



Available Models

| Model     | Description                                                               | Load Size | Input Voltage | Output Voltage | Listings               |
|-----------|---------------------------------------------------------------------------|-----------|---------------|----------------|------------------------|
| IIS 25 I  | Interruptible 25W Micro Inverter with Single Flex to Fixture              | 25W       | 120-277VAC    | 120-277VAC     | cULus 924              |
| IIS 35 HE | Interruptible 35W Micro Inverter with Single Flex to Fixture, CA Title 20 | 35W       | 120-277VAC    | 120-277VAC     | cULus 924, CA Title 20 |
| IIS 50 I  | Interruptible 50W Micro Inverter with Single Flex to Fixture              | 50W       | 120-277VAC    | 120-277VAC     | cULus 924              |

Extending Runtime

Micro Inverters offer a simple way to extend emergency runtime to meet FEMA, local code, or individual project requirements. This is achieved by de-rating the connected load size. Refer to the chart below for rating options for IIS Micro Inverters

| IIS Model | 90 Minute Capacity | 120 Minute Capacity |
|-----------|--------------------|---------------------|
| IIS 25    | 25W                | 18W                 |
| IIS 35    | 35W                | 25W                 |
| IIS 50    | 50W                | 35W                 |

Remote Capabilities

Refer to the Remote Mounting Distance chart to see the recommended distances when using the IIS Micro Inverter for remotely operating your designated emergency fixture.

| Model    | 120V     |          | 277V*    |
|----------|----------|----------|----------|
|          | 14 gauge | 12 gauge | 14 gauge |
| IIS 25   | 3198 ft  | 4924 ft  | 17267 ft |
| IIS35 HE | 2284 ft  | 3518 ft  | 12325 ft |
| IIS 50   | 1600 ft  | 2468 ft  | 8623 ft  |



IOTA IIS Micro Inverters are UL Listed for both field and factory installation in the United States and Canada.



The IIS 35 HE is registered in the MAEDBS (Modernized Appliance Efficiency Database System) as a small battery charger to help meet CA Title 20 energy requirements.



All IOTA IIS Micro Inverters are inrush rated to NEMA 410 standards, eliminating the need to de-rate load size to accommodate the inrush potential of connected LED loads.

For more information on IIS Micro Inverters or other IOTA emergency inverters, visit [www.iotaengineering.com/resources/iota-emergency-inverter-solutions](http://www.iotaengineering.com/resources/iota-emergency-inverter-solutions)