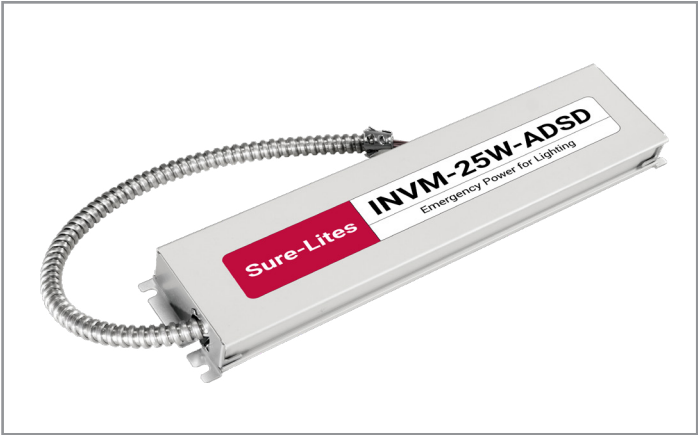


|             |  |           |  |      |  |
|-------------|--|-----------|--|------|--|
| Project     |  | Catalog # |  | Type |  |
| Prepared by |  | Notes     |  | Date |  |



## Sure-Lites

### INVM-25W-ADSD

Emergency Power for Lighting  
 25VA Output Micro Inverter  
 0-10V Auto Dimming to Max 200W\* Load

**Typical Applications**  
 Office • Education • Healthcare • Hospitality  
 Retail • Industrial • Manufacturing

- 
**Interactive Menu**
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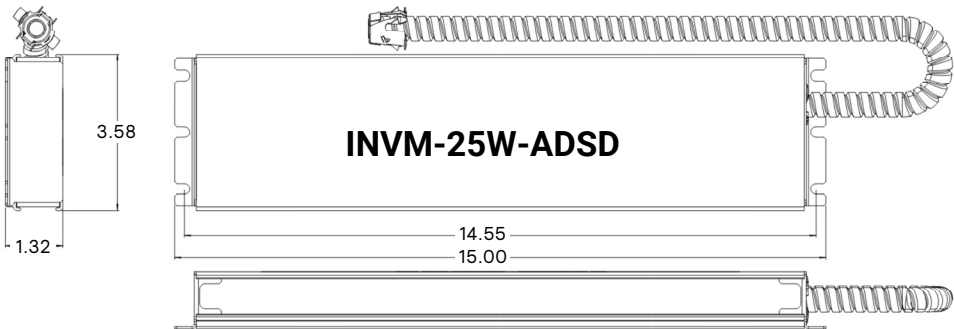


### Top Product Features

- Provides 90 minutes of 25VA emergency power to lighting fixtures
- 0-10V Auto dimming allows up to 200W\* max dimmable load
- 25 VA max non-dimmable load
- Automatic dimming (0 to 10V) of connected load - Max dimmable load of 200W\*
- Up to 25VA for non-dimmable loads
- Automatic code-compliant testing (Self-testing)
- Automatic load monitoring after commissioning (new UL 924 requirement)
- Works with LED and fluorescent fixtures
- Ideal for (but not limited to) screw-base LED lamps
- Compatible with AC (line voltage) driven TLED lamps
- Remote-mounting up to 250 feet maximum

### Dimensional and Mounting Details

15.00" x 3.58" x 1.32" | Mounting Center - 14.55" | Weight - 5 lbs. (11 kg)



\* Note: A total connected load of 200W is only possible with very specific loads that have been tested at the factory.  
 Other loads rated at this maximum power level may be possible, but they should be pre-tested at the factory or by the local electrical shop before specification or field installation.  
 \*\*The bi-color illuminated test switch is a Class 2 device.

## Ordering Information

SAMPLE ORDER NUMBER: **INVM-25W-ADSD**

| Series                            | VA/W      | Type/Harness               | Special Features      | Self-Diagnostic     |
|-----------------------------------|-----------|----------------------------|-----------------------|---------------------|
| INVM= Mini Inverter, Single Phase | 25W= 25VA | Blank= Conduit out one end | AD= Automatic Dimming | SD= Self-Diagnostic |

## Product Specifications

### Electrical/Application

- Universal 120~277VAC 50/60Hz, 80 mA input
- Output voltage: 120 VAC +/- 10%, 60Hz +/- 5%
- Compatible with LED, fluorescent or incandescent light fixtures
- Provides 90-minutes of emergency power
- 2~5 second transfer time
- 24-hour recharge time
- Max output power 25 VA, supports up to 200W\* 0-10V dimmable loads
- Max output power 25 VA for non-dimmable loads
- Surge withstand 4kV (ANSI C82.77-5), for industrial high-bay applications
- Provides pure sine wave power to the AC input side of the fixture for easy field installation
- Can provide emergency power to indoor and outdoor lighting (not rated for outdoor mounting locations)
- Remote mounting up to 250 feet maximum
- Low voltage disconnect prevents battery from deep discharge
- Temperature Rating (Ambient) 32° F to 122° F (0° C to 50° C)

### 0-10V Auto Dimming

- 0-10V auto dimming feature allows a lighting load of up to 200W\* to be dimmed to 10VA maximum emergency output power
- The INVM-25W-ADSD passes the normal room or fixture dimming control signal (0-10 V) during normal operation (AC mains on) so normal dimming operation of the luminaire is not affected.

### Electronic Battery Disconnect

- The Electronic Battery Disconnect simplifies shipping, storage, installation, and commissioning of the emergency lighting luminaire.
- It allows for the luminaire to be installed and made ready for use without needing to reopen the luminaire when AC power is available, also avoiding unnecessary drain on the battery.
- Once activated, the product can also be manually disabled, allowing the product or the luminaire to be safely stored for extended periods of time.
- In the situation where the user manually deactivates the emergency operation for shipping or storing product via the test switch, the Electronic Battery Disconnect feature reactivates power when the driver senses that AC current is applied.
- This feature saves time, labor and the potential to overlook the enable connector step.
- This reduces the possibility of inadvertently discharging the battery prior to installation, whether in transit or storage.

### Installation

- Compatible with switched or unswitched fixtures
- Can be installed on or near the fixture
- Remote mounting up to 250 feet

### Construction

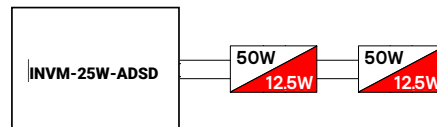
- Steel housing with conduit

### Battery

- Maintenance free lithium-ion

### Warranty

- 5-year limited warranty



\*Two (2) 50W fixtures at 25% dim level in emergency mode

### Charging Indicator Light / Test Switch

- Two-wire, bi-color illuminated test switch
- IP65 rated for ingress protection from dust and water jets
- UL 2043 plenum rated test switch assembly

### Code Compliance

- UL 924 damp location for factory or field installation
- NEC, NFPA, OSHA compliant
- CEC Title 20 compliant

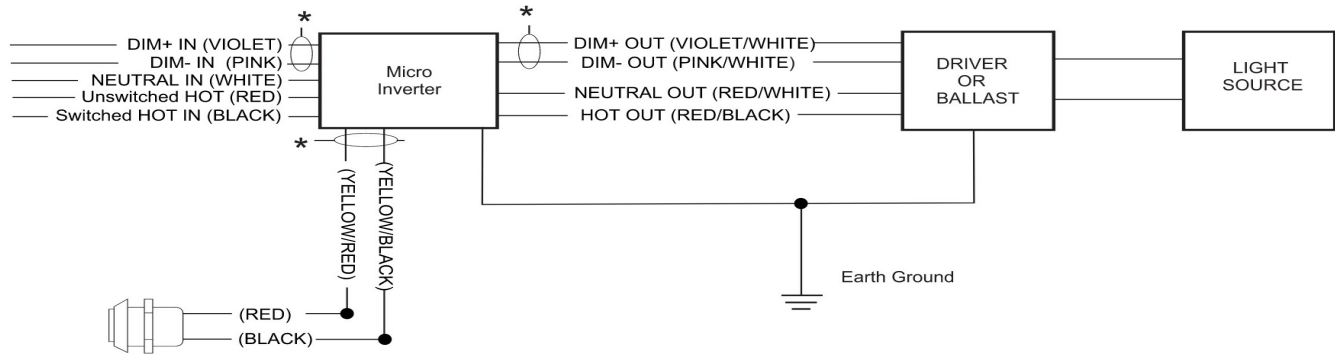
### Specification

- Emergency lighting shall be provided by using a standard fixture or group of fixtures powered with a Sure-Lites INVM-25W-ADSD inverter.
- The INVM-25W-ADSD unit consists of batteries, and electronic battery charging and output circuitry contained in one metal case.
- The INVM-25W-ADSD unit shall be capable of powering dimmable fluorescent and/or LED lighting fixtures rated at up to 50W of input power at 0°C to 50°C for a minimum of 90 minutes by the use of 0-10V dimming control.
- The INVM-25W-ADSD shall allow the emergency fixture to be on, off, switched or dimmed without affecting emergency operation.
- The INVM-25W-ADSD unit shall exceed emergency standards set forth by the current NEC and the Canadian Electrical Code.
- This device complies with Part 15 of the FCC Rules and meets California Energy Commission Title 20 efficiency requirements.
- It shall be UL Listed for the US, suitable for damp locations, and warranted for a full five years from date of manufacture.

### FCC Compliance

- This device complies with Part 15 of the FCC Rules

## Schematic



\*Apply AC power to enter charging mode.

\* Remove AC power to enter emergency mode.

For incandescent or non-dimming loads no greater than 25VA (INVM-25W-ADSD).

Cap off all unused dimming (DIM) leads separately.

**\*These connections have been evaluated to comply with requirements  
for UL1310 Class 2 Power Units**

## Accessories (sold separately)

This inverter can be used with Bodine accessory part INVM-BKT, inverter mounting bracket, to facilitate installation with suspended high-bay luminaires.

## Lithium Battery Shipping Regulations

To comply with IATA provisions for air transporting lithium batteries, and for a step by step guidance through the shipping process, please visit <https://www.iata.org/en/publications/store/lithium-battery-shipping-regulations/>.