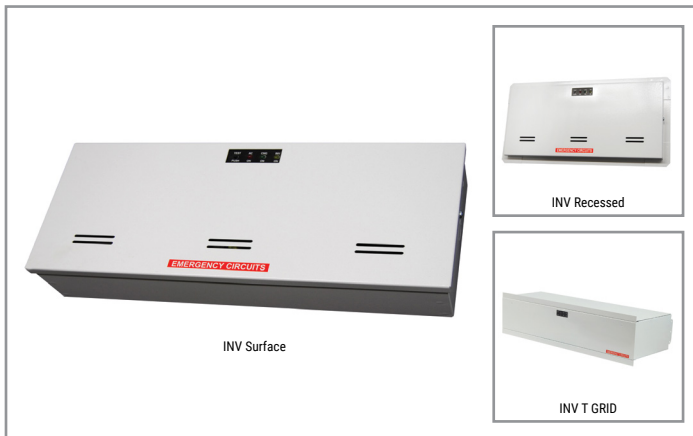


Project		Catalog #		Type	
Prepared by		Notes		Date	



Sure-Lites

Micro Inverter Series

The INV micro inverter series will supply 20 or 35 watts of sinusoidal wave AC output

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Industrial • Manufacturing

Interactive Menu

- Order Information page 2
- Product Warranty

Product Certification



Product Features



Top Product Features

- UL 924 Listed
- Supplies 20 or 35 Watts of AC power from the on board battery supply
- Works in conjunction with incandescent, LED, and fluorescent lamps
- Runs switched, normally-on, or normally-off emergency fixtures
- UL listed for damp location (0C to 50C)
- Optional T-grid models are plenum rated and meet City of Chicago "CCEA" requirements.
- EMI in compliance with FCC 'CLASS A' regulations.

 additional product diagrams

Order Information

SAMPLE ORDER NUMBER: **INV20NC, INV35NC**

Series	Wattage	Battery	Mounting	Self-Diagnostics
Series	Wattage	Battery	Mounting	Self-Diagnostics
INV=Inverter	20=20 watts 35=35 watts	NC=nickel cadmium	S=surface R=recessed TG=T grid	_=no self-diagnostics SD=Self-Diagnostics

General Specifications

Model Number	Housing Size	Input/Output volts	90 minute capacity		System Weight		Battery Type	Temp Range (*C)	Power Consum. (Max.)	Battery Voltage (VDC)	DC Input Current (A dc)	Input Current		Thermal output BTU's	
			Watts	VA	lbs	Kg						120 VAC (max)	277 VAC (max)	Standby	Emergency
INV20	Small	120/277	20	20	11.0	5.0	NiCad	0-50°	9W	12	2.1	0.25A	0.11A	31	22
INV35	Large	120/277	35	35	12.0	5.4	NiCad	0-50°	9W	12	3.8	0.37A	0.16A	31	35

Product Specifications

Electronic

- Input frequency 60 Hz +/-2%
- Input protection: Provided by service panel 20 A max.
- Output voltages 120 or 277 VAC
- Efficiency rating 98%
- Sinusoidal waveform output
- Output frequencies 60 Hz in emergency mode
- Less than 3% THD
- Transfer time < 1 second
- Load power factor range for 55W: 0.44 lead to 0.44 lag
- Minimum loading: 0% of rated capacity
- Output protection: inverter fuses

- "Soft start" design reduces in-rush current
- Installable up to 1000 feet from controlled fixtures
- 100% of lumen output from fixtures in emergency mode
- Low voltage disconnect prevents deep battery discharge
- Test switch
- Nickel cadmium battery
- Variable-rate, temperature- compensated charger

Housing Construction

- Durable 18-gauge steel housing design with white semi-gloss powder-coat paint finish
- Recessed, surface or T-grid mounting

Code Compliance

- UL 924 Listed
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements
- UL listed for damp location (0C to 50C)
- Optional T-grid models are plenum rated and meet City of Chicago "CCEA" requirements.
- EMI in compliance with FCC "CLASS A" regulations.

Application

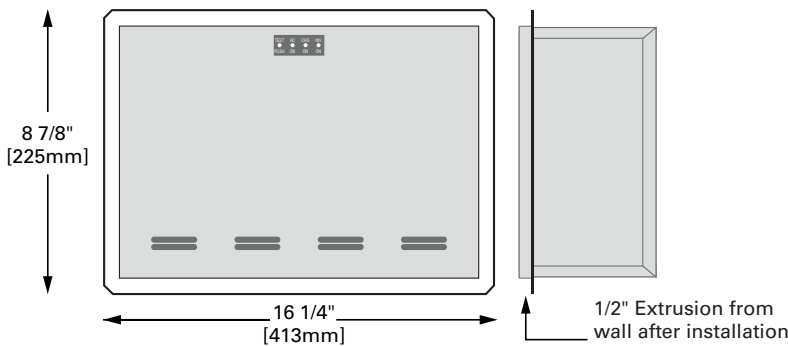
- LED, Fluorescent and Incandescent Lighting

Warranty

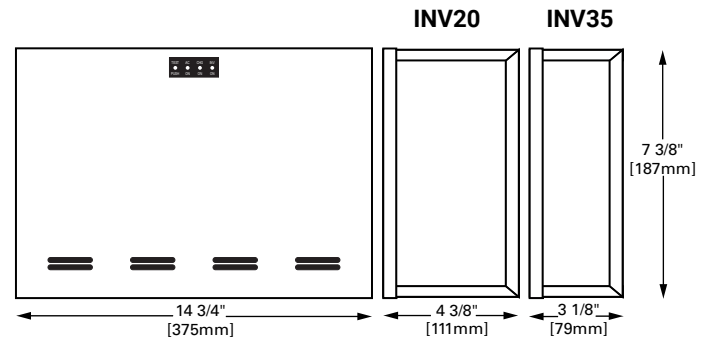
- 3 year product warranty
- 7 year pro-rated battery warranty

Dimensional and Mounting Details

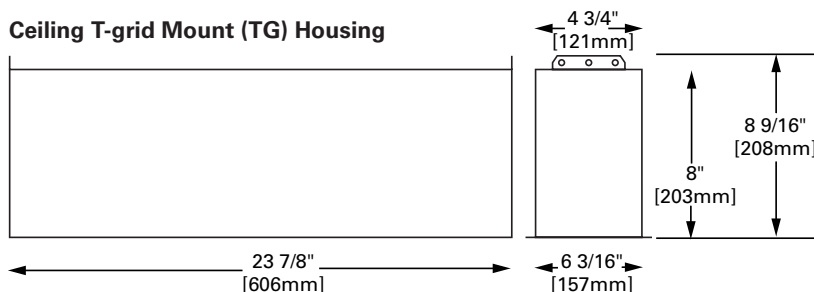
INV20/35 Surface



INV20/35 Recessed Mount Housing



Ceiling T-grid Mount (TG) Housing



Self-Diagnostics

Description

Sure-Lites INV series offers the self-testing and self-diagnostic (SDT) options. This feature helps insure NFPA and OSHA code compliance and validates system operational performance.

Self-diagnostic functions

The self-diagnostic function is factory preset and performs the following:

- Monitoring of battery, battery charger and connected loads.
- Self-testing and a 30-second battery discharge once every 30 days after normal utility power has been supplied for a minimum of 96 hours.
- Self-testing and a 30-minute battery discharge once every 180 days after normal utility power has been supplied for a minimum of 96 hours.
- Self-testing and a 90-minute battery discharge once every 365 days after normal utility power has been supplied for a minimum of 96 hours.

Service Indication Led Indicator /Status

- GREEN Steady = Normal Service
- RED/GREEN Blinking = High Charge Enabled
- GREEN Blinking = Test mode Enabled
- One Blink RED / Pause = Battery Charger Fault
- Two Blinks RED / Pause = Battery Fault
- Four Blinks RED / Pause = Lamp / Load Fault

Manual Testing Action / Reaction & LED Indication

Push test switch once (within 2 seconds)
30 = second test one blink GREEN / pause
Push test switch twice (within 2 seconds) = 30 minute test two blinks GREEN / pause
Push test switch thrice (within 2 seconds) = 90 minute test three blinks GREEN / pause
Push test switch and hold for 3 seconds = Canceled test
Push test switch and hold for 6 seconds = System reset