#### DESCRIPTION

The Sure-Lites INV series is a UL Listed stand-alone modified sine wave output inverter designed to provide power to designated emergency lighting fixtures. In a power loss situation, the unit will supply 55, 110 or 220 Watts of power from the onboard battery supply. It works in conjunction with incandescent, LED, and fluorescent lamps and fixture types and will automatically run switched, normally-on, or normally-off designated emergency fixtures. The INV series is ideal for applications requiring an emergency source for lighting arrangements that utilize multiple lamp and fixture types. Installation options include surface mount, recessed or T-grid. The series has a self-diagnostics option and comes with a three-year product warranty and seven-year pro-rated battery warranty.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

#### SPECIFICATION FEATURES

#### **Electrical**

- input frequencies 60 Hz =/-2%
- input protection: AC line fuses
- 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
- Load power factor range for 110W/220W: 0.88 lead to 0.88 lag
- Minimum loading: 0% of rated capacity
- Output protection: line and 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

#### **Housing Construction**

- Durable 18-gauge steel housing design with white semi-gloss powder-coat paint finish
- Recessed, surface or T-grid mounting
- Replaceable output fuse protection
- Variable-rate, temperaturecompensated charger

#### **Code Compliance**

- UL 924 Listed
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements
- T-grid models are plenum rated

#### **Application**

- LED, Fluorescent and Incandescent Lighting

#### Warranty

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



SURE-LITES®

### INV EMERGENCY INVERTER SERIES

LED FLUORESCENT INCANDESCENT

ON-LINE POWER INVERTER SYSTEMS



#### **SPECIFICATIONS**

Series	Wattage	Battery	Mounting	Self-Diagnostics	CEC
INV= inverter	<b>55</b> = 55 watts <b>110</b> =110 watts	PB= lead acid	S= surface R= recessed TG=T grid	_= no self-diagnostics SD= Self-Diagnostics	_= non-CEC compliant CA= CEC compliant

Series	Wattage	Battery	Mounting	Self-Diagnostics	CEC
INV= inverter	<b>220</b> = 220 watts	PB= lead acid	S= surface	_= no self-diagnostics <b>SD</b> = Self-Diagnostics	_= non-CEC compliant CA= CEC compliant

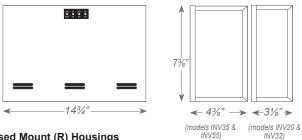
#### **General Specifications**

Series		90 minute capacity System		System W	Veight Full Load Efficiency		# of Battery Batteries Voltage	Battery Voltage	Battery Current	AC Input Current		Thermal output BTU's	
	Output	Watts	VA	Ibs	Kg	Lincicity	Dutteries	Voltage	Ourient	120 VAC	277 VAC	On-line	Emergency
INV55	120/277	55	125	30	14	98%	2	24 VDC	3.4 A	1.2	0.52	9	90
INV110	120/277	110	125	42	17	98%	2	24 VDC	5.7 A	1.2	0.52	9	95
INV220	120/277	220	250	60	27	98%	4	48 VDC	5.6 A	2.4	1.1	18	167

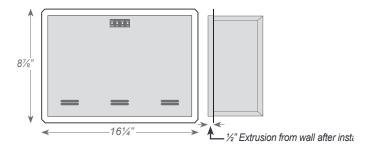


#### **INV 110, INV 220 DIMENSIONS**

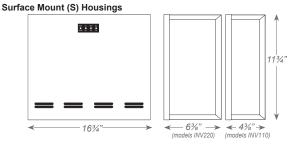
#### Surface Mount (S) Housings

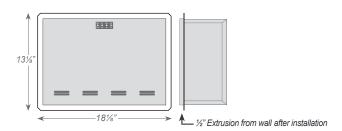


#### Recessed Mount (R) Housings



## Recessed Mount (R) Housings





### Ceiling T-grid Mount (TG) Housing



# Ceiling T-grid Mount (TG) Housing < 4¾"→ **←**6<sup>3</sup>/<sub>16</sub>"→

#### 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

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