

Project		Catalog #		Type	
Prepared by		Notes		Date	



## Sure-Lites

### INVSM-S Series

Single Phase Small Inverter

1.0KVA/KW to 2.8KVA/KW For LED, HID, Motor Loads and all Lighting Loads

#### Typical Applications

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

#### Interactive Menu

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#### Product Certification



#### Top Product Features

- Single Phase Inverter
- 1.0KVA/KW to 2.8KVA/KW
- Compatible with all lighting loads, including LED/HID
- No Break 2ms Transfer Time
- Small Footprint, Wall Hung Units
- UL924 listed

#### General Specifications

Electronics Module									Batteries 90 Minutes @ Full Load				
Model Number	Power Rating (KVA/KW)	Efficiency (%)	Audible Noise (db)	Heat Loss (BTU)	Cabinet Dimensions (90 minute run)				90 Minutes Batteries (lbs/kg)	No. of Batteries	Voltage (VDC)	Current (amps)	Total System Weight (lbs/kg)
					Width (in/cm)	Height (in/cm)	Depth (in/cm)	Weight (lbs/kg)					
INVSM-S-1.0	1.0	98	45	70	24.25/61.6	27.5/69.9	10.5/26.67	121/55	160/73	4	48	26	281/128
INVSM-S-1.6	1.6	98	45	110	24.25/61.6	43.25/109.86	10.5/26.67	165/75	240/109	6	72	27	405/184
INVSM-S-2.2	2.2	98	45	150	24.25/61.6	43.25/109.86	10.5/26.67	174/79	320/146	8	96	27	494/225
INVSM-S-2.8	2.8	98	45	190	24.25/61.6	55/139.7	10.5/26.67	203/92	400/182	10	120	27	603/274

## Order Information

SAMPLE ORDER NUMBER: **INVSM-S-1-A-S-BA1020-BAC-5YP**

Series	Phase	KVA/KW	Voltage Input/Output	Battery Type	Run Time	Output Breakers			
<b>INVSM</b> =Inverter, Small Series	<b>S</b> =Single Phase	<b>1.0</b> =1.0 <b>1.6</b> =1.6 <b>2.2</b> =2.2 <b>2.8</b> =2.8	<b>A</b> =120 - 120 <b>B</b> =120 - 120/277 <sup>(2)</sup> <b>C</b> =208 - 120 <sup>(2)</sup> <b>D</b> =240 - 120/240 <sup>(2)</sup> <b>E</b> =277 - 120 <sup>(2)</sup> <b>F</b> =277 - 277 <b>G</b> =277 - 277/120 <sup>(2)</sup> <b>H</b> =208 - 120/240 <b>I</b> =208 - 120/208 <sup>(2)</sup> <b>Z</b> =Contact Factory for Other Voltages	<b>S</b> =Standard (10 year)	<b>[Blank]</b> =90 min	<b>Output</b> <b>B</b> =Normally On <b>N</b> =Normally Off <sup>(3)</sup>	<b>Voltage</b> <b>A</b> =120 <b>B</b> =208 <b>C</b> =240 <b>D</b> =277 <b>Z</b> =Other	<b>Amp Rating</b> (Distribution Breakers) <b>10, 16, 20, 25, 32</b>	<b>Quantity</b> <sup>(4)</sup> <b>01-10</b>
			<b>Notes</b> (1) Other voltages available. Contact factory. (2) Enclosure height may increase. Contact factory.			<b>Notes</b> (3) Enclosure height may increase. Contact factory. (4) Unless output circuit breakers are specified, a single output breaker will be supplied with each unit and the current rating will vary based on the output power and voltage rating of the unit. Maximum specified output breakers available: 10 unsupervised (1-pole), 6 supervised (1-pole). A 2-pole breaker occupies 2 positions.			

Options	Mounting Options	Warranty
<p><b>A</b>=Remote Summary Alarm Panel  <b>BL</b>=Circuit Breaker Lock(s)  <b>BTM</b>=Battery Temperature Monitor  <b>C</b>=Status Monitoring Contacts Dry Form C Contacts Panel  <b>DT</b>=Drip Top  <b>I</b>=Inverter on Dry Form C Contacts  <b>L</b>=Load Control Relay (Contact factory for available quantities &amp; review application)  <b>M</b>=Internal Maintenance Bypass <sup>(6)</sup>  <b>M(BBM)</b>=Internal Maintenance Bypass <sup>(6)</sup>  <b>O</b>=Output transfer delay (3 seconds)  <b>P</b>=Remote Status Panel <sup>(7)</sup>  <b>S</b>=Summary Fault Form C Contacts  <b>T</b>=Output Trip (Supervised) Alarm <sup>(7)</sup>  <b>V</b>=Time Delay 15 Minutes  <b>Y</b>=Battery Strapping  <b>ZM</b>=Zone Monitor (Contact factory to review application)  <b>Z</b>=Seismic Mounting MBYP - External maintenance bypass <sup>(8)</sup>  <b>EMPB</b>=External Maintenance Bypass Switch <sup>(9),(10)</sup>  <b>SPARES</b>=Spare Fuses &amp; Circuit Boards  <b>SPAREF</b>=Spare Fuse Kit</p> <p><b>Can only have one of following options:</b>  <b>R</b>=Remote Meter Panel  <b>SEA</b>=Serial to Ethernet Adapter (RJ45)  <b>BAC</b>=BACnet Communications (MSTP)  <b>BIP</b>=BACnet Communications (IP)  <b>MIP</b>=Modbus TCP/IP  <b>MOD</b>=Modbus RTU</p>	<p><b>[Blank]</b>=Standard Wall  <b>F</b>=Floor Mount Bracket (Adds 4" to total system height)  <b>W</b>=Wall Mount Brackets  <b>Z</b>=Seismic / Raised Floor (Adds 4" to total system height)</p>	<p><b>2YW</b>=Startup &amp; Same Day Training  <b>2YWT</b>=Startup, Same Day Training and Full Run Test  <b>5YP</b>=5-Year Preventative Maintenance Plan, Startup must be included  <b>5YW</b>=5-Year Extended Electronics Warranty  <b>SMP</b>=Service Monitoring Plan <sup>(12)</sup>  <b>TR</b>=Training (If required on Day One)</p>
<b>Notes</b> (6) Maintenance bypass switch is a "make before break". (7) Requires option C. (8) Only main output breaker available. Distribution to be external. (9) Cannot purchase External Maintenance Bypass Switch with Branch Circuit Breaker options. (10) Maintenance bypass switch is a "make before break".		<b>Notes</b> (11) One year warranty is standard. (12) Requires Factory Start-up options. This program will provide monitoring of the lighting inverter system by our factory service department. All monthly and yearly system tests will be reviewed by our factory service department for early warning signs of any system malfunction. Any system alarms and monthly/yearly test results will automatically be E-mailed to our service department where corrective action can be taken and while under warranty, if necessary, a factory authorized service technician will be scheduled to complete any necessary repairs. This monitoring program will require a dedicated telephone line.

## Product Specifications

### Standard Features

- 98% Efficient
- PWM/IGBT Technology
- Micro-Processor Control
- User Programmable with Password Protection
- UL 924 Listed
- Automatic Event, Test and Alarm Log
- RS232 Communications Port
- Input Circuit Breaker
- 2ms Transfer Time
- Low Audible Noise
- Space-Saving, Single Cabinet Design

### Optional Features

- BACnet (MS/TP) or (IP)
- MODbus (TCP/IP) or (RTU)
- Internal Maintenance Bypass
- Summary Form C Contacts
- Fast Charge
- Remote Meter Panel
- Output Circuit Breakers
- Extended Factory Warranty
- Factory Startup and Training
- Normally Off Output
- Output Trip Alarms
- Remote Summary Alarm Panel

(For complete Options list see Ordering Information table above)

### Specifications

- Input 120 or 277VAC 1 Phase 2 Wire Plus Ground
- Output 120 or 277VAC 1 Phase 2 Wire Plus Ground
- Output Load Power Factor .5 Lag to.5 Lead
- Compatible with all LED Drivers
- Forced Air Cooling Only During Emergency Operation; No Filters Required
- Output Distortion Less than 3% THD for Linear Loads
- Generator Compatibility
- Custom Voltages Available
- 90 Minute Runtime Standard; Other Runtimes Available upon Request (only 90 or 120 mins. available)

## Dimensions



INVSM-S-1



INVSM-S-2



INVSM-S-3



INVSM-S-4