

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 and all Lighting Loads

Typical Applications

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

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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
- PWM/IGBT Technology provides a pure sine wave for clean emergency power with a 2ms no break 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-BA1010-BAC-5YP**

Series	Phase	KVA/KW	Voltage Input/Output	Battery Type	Run Time	Output Breakers			
INVSM =Inverter, Small Series	S =Single Phase	1.0 =1.0 1.6 =1.6 2.2 =2.2 2.8 =2.8	A =120 - 120 B =120 - 120/277 ⁽²⁾ C =208 - 120 ⁽²⁾ D =240 - 120/240 ⁽²⁾ E =277 - 120 ⁽²⁾ F =277 - 277 G =277 - 277/120 ⁽²⁾ H =208 - 120/240 I =208 - 120/208 ⁽²⁾ Z =Contact Factory for Other Voltages	S =Standard (10 year)	[Blank] =90 min	Output B =Normally On N =Normally Off ⁽³⁾	Voltage A =120 B =208 C =240 D =277 Z =Other	Amp Rating (Distribution Breakers) 10, 16, 20, 25, 32	Quantity ⁽⁴⁾ 01-10
			Notes (1) Other voltages available. Contact factory. (2) Enclosure height may increase. Contact factory.			Notes (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>A=Remote Summary Alarm Panel BL=Circuit Breaker Lock(s) BTM=Battery Temperature Monitor C=Status Monitoring Contacts Dry Form C Contacts Panel DT=Drip Top I=Inverter on Dry Form C Contacts L=Load Control Relay (Contact factory for available quantities & review application) M=Internal Maintenance Bypass ⁽⁶⁾ M(BBM)=Internal Maintenance Bypass O=Output transfer delay (3 seconds) P=Remote Status Panel ⁽⁷⁾ S=Summary Fault Form C Contacts T=Output Trip (Supervised) Alarm ⁽⁷⁾ V=Time Delay 15 Minutes Y=Battery Strapping ZM=Zone Monitor (Contact factory to review application) EMPB=External Maintenance Bypass Switch ^{(9),(10)} SPARES=Spare Fuses & Circuit Boards SPAREF=Spare Fuse Kit</p> <p>Can only have one of following options: R=Remote Meter Panel SEA=Serial to Ethernet Adapter (RJ45) BAC=BACnet Communications (MSTP) BIP=BACnet Communications (IP) MIP=Modbus TCP/IP MOD=Modbus RTU</p>	<p>[Blank]=Standard Wall F=Floor Mount Bracket (Adds 4" to total system height) W=Wall Mount Brackets Z=Seismic / Raised Floor (Adds 4" to total system height) ⁽⁸⁾</p>	<p>2YW=Startup & Same Day Training 2YWT=Startup, Same Day Training and Full Run Test 5YP=5-Year Preventative Maintenance Plan, Startup must be included 5YW=5-Year Extended Electronics Warranty TR=Training (If required on Day One)</p>
Notes (6) Maintenance bypass switch is a "make before break". (7) Requires option C. (9) Cannot purchase External Maintenance Bypass Switch with Branch Circuit Breaker options. (10) Maintenance bypass switch is a "make before break".	Notes (8) Only main output breaker available. Distribution to be external.	Notes (1) One year warranty is standard.

Product Specifications

Standard Features

- 98% Efficient
- PWM/IGBT Technology provides pure sine wave emergency power with a 2ms no break transfer time
- Micro-Processor Control
- User Programmable with Password Protection
- UL 924 Listed
- Automatic Event, Test and Alarm Log
- RS232 Communications Port
- Input Circuit Breaker
- 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
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- 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

