

Project		Catalog #		Type	
Prepared by		Notes		Date	



Sure-Lites

INV-U-S Series

Single Phase Systems

1.5KVA/KW to 16.7KVA/KW For LED, HID, Motor Loads and all Lighting Loads

Typical Applications

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

Interactive Menu

- Order Information page 2
- Product Warranty

Product Certification



Top Product Features

- Single Phase Inverter
- 1.5 kVA/KW to 16.7 kVA/KW
- Uninterruptible
- For use with LED, HID, motor loads and all lighting loads
- 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)					
INV-U-S-1	1.5	98	45	102	30/77	47/119	25/64	215/98	296/135	4	48	39	511/230
INV-U-S-2	2.25	98	45	153	30/77	47/119	25/64	230/105	444/200	6	72	38	697/306
INV-U-S-3	3.0	98	45	204	30/77	47/119	25/64	235/107	592/266	8	96	38	827/372
INV-U-S-4	3.75	98	45	255	30/77	47/119	25/64	240/109	740/330	10	120	37	980/441
INV-U-S-5	5.0	98	45	340	30/77	47/119	25/64	280/128	888/400	12	144	40	1168/525
INV-U-S-6	6.0	98	45	408	48/122	76/193	25/64	605/272	1110/500	15	180	40	1715/772
INV-U-S-8	8.0	98	45	544	48/122	76/193	25/64	640/288	1480/666	20	240	39	2120/954
INV-U-S-10	10.0	98	45	680	48/122	76/193	25/64	785/353	1776/800	24	144	82	2561/1153
INV-U-S-12	12.5	98	45	860	48/122	76/193	25/64	805/362	2220/999	30	180	82	3025/1361
INV-U-S-16	16.7	98	45	1135	48/122	76/193	25/64	885/398	2960/1332	40	240	80	3845/1730

For 120min sizing reach out to Surelite Tech support.

Order Information

SAMPLE ORDER NUMBER: **INV-U-S-1-A-S-BA2006-A-2YW**

Series	Uninterruptible	Phase	KVA/KW	Voltage Input/Output	Battery Type	Run Time	Output Breakers			
Series	Uninterruptible	Phase	KVA/KW	Voltage Input/Output ⁽¹⁾	Battery Type	Run Time	Output Breakers ⁽⁵⁾			
INV=Inverter	U=Uninterruptible	S=Single Phase	1=1.5 2=2.25 3=3.0 4=3.75 5=5.0 6=6.0 8=8.0 10=10.0 12=12.5 16=16.7	A=120 - 120 B=120 - 120/277 C=208 - 120 D=240 - 120/240 E=277 - 120 F=277 - 277 G=277 - 277/120 H=208 - 120/240	S=Standard (10 year) G=Long Life (20 year)	[Blank]=90 min 120=120 min ⁽²⁾	Output B=Normally On N=Normally Off ^{(3),(4)}	Voltage A=120 B=208 C=240 D=277 Z=Other	Amp Rating (Distribution Breakers) 10, 16, 20, 25, 32, 40, 50, 63	Quantity ⁽⁵⁾ 01-24 ⁽⁵⁾
				Notes (1) Other voltages available. Contact factory.		Notes (2) 20 min run time not available on 16.7KVA unit.	Notes (3) Normally off loads cannot exceed 20% of total KVA rating with any combination of HID loads. (4) 15 minute retransfer time delay of Normally Off circuit after return of utility. (5) Maximum output breakers available: 12 unsupervised (1-pole), 8 supervised (1-pole) for 1.5KVA-5KVA; 24 unsupervised (1-pole), 18 supervised (1-pole) for 6KVA-16.7KVA; Breakers provided are 20 Amps unless specified otherwise. A 2-pole breaker occupies 2 positions.			

Options

Warranty

Options	Warranty ⁽¹¹⁾
A =Remote Summary Alarm Panel C =Status Monitoring Contacts F =Fast Charge I =Inverter on Dry Form C Contacts M =Maintenance Bypass ⁽⁶⁾ S =Summary Fault Form C Contacts T =Output Trip (Supervised) Alarm ⁽⁷⁾ V =Time Delay 15 Minutes O =Output transfer delay (3 seconds) DT =Drip Top L =Load Control Relay (Contact factory for available quantities & review application) P =Remote Status Panel ⁽⁷⁾ ZM =Zone Monitor (Contact factory to review application) Z =Seismic Mounting MBYP - External maintenance bypass ⁽⁸⁾ EMPB =External Maintenance Bypass Switch ^{(9),(10)} 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	2YW =Startup & Same Day Training 5YP =5-Year Preventative Maintenance Plan, Startup must be included 5YW =5-Year Extended Electronics Warranty SMP =Service Monitoring Plan ⁽¹²⁾
Notes (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".	Notes (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

Models 1.5KVA to 5.0KVA



Models 6.0KVA to 16.7KVA

