

Sola 3K2U Rack/Tower Line-Interactive Uninterruptible Power Systems (UPS)

The slim 2U shape and advanced networking and remote control options make this UPS the perfect choice for networking or process control racks. The S3K2U Series UPS's protect against most severe power disturbances including over/under voltages through state of art sinewave, line-interactive technology. Utility power is continually protected by the S3K2U series while internal battery power is maintained for deep sag conditions.

The built-in protection for under and over voltage conditions of the S3K2U units includes low-energy lightning surge protection on the input power source. They are provided with an input circuit protector and a pair of surge protected data line connectors (RJ-45).

The S3K2U series include an automatic bi-weekly test function to ensure the capability of the battery to supply power in deep sag situations. Should the battery fail this test, the UPS will display a warning to indicate that the battery needs to be replaced.

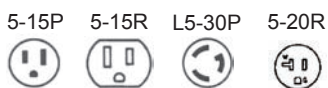
Applications

- Workstations
- PLCs
- Robotics & process control
- Industrial automation systems

Accessories

- Power Distribution Modules
- SNMP Card (SNMP WEB CARD)
- Relay Card (RELAY CARD-INT)
- Extended battery option
- Rackmount Hardware

Plug & Receptacle Reference Chart



Features

- 1000 - 2200 VA
- Line-Interactive with Data Line protection for telephone and network connections.
- Automatic Voltage Regulation (AVR) topology
- High performance sine wave output
- Slim 2U rack or tower mounting (hardware and mounting feet included).
- Configurable input voltage
- Full sequence, automatic bi-weekly battery testing
- MultiLink™ power management software available online at www.solaheviduty.com.
- Remote EmergencyPower Off (REPO) function
- USB Interface Port
- SNMP capable with optional card
- Dry-contact relay outputs are available as an option.
- Standard two-year warranty
- Protects against most adverse power conditions including:
 - Frequency variations
 - Surge
 - Sags
 - Spike
 - Blackouts
 - Over and under voltages

Related Products

- Portable MCR Power Conditioners
- DIN Rail mounted SPD (Surge Suppressors)
- S4K UPS Series

Selection Table

Capacity (VA/W)	Catalog Number	Volts, Frequency In/Out	Typical Runtime (minutes)*	Input Plug/ Output Receptacle	Approx. Ship Weight lbs (kg)
1000/750	S3K2U1000	120/120, 50/60 Hz	11/26	(Attached) 5-15P / (8) 5-15R	80.7 (36.6)
1440/1080	S3K2U1440	120/120, 50/60 Hz	5/16	(Attached) 5-15P / (8) 5-15R	85.8 (39.0)
2200/1650	S3K2U2200	120/120, 50/60 Hz	5/16	(Attached) L5-30P / (6) 5-15R (2) 5-20R	95.9 (43.6)

* Full/Half Load (in minutes). See the Battery Runtime chart.

Sola 3K2U Rack/Tower-mount, 120 VAC Specifications

Catalog Number	S3K2U1000	S3K2U1440	S3K2U2200
Power Rating (VA/Watts)	1000/750	1440/1080	2200/1650
Dimensions inches (mm)			
Unit (H x W x D)	3.43 in x 17 in x 22 in (87 mm x 430 mm x 557 mm)		3.43 in x 17 in x 24.1 in (87 mm x 430 mm x 612 mm)
Shipping (H x W x D)	11.8 in x 23.5 in x 27.8 in (300 mm x 598 mm x 706 mm)		13.1 in x 23.5 in x 34 in (333 mm x 598 mm x 864 mm)
Approx. Shipping Weight - lbs (kg)	81 (37)	86 (39)	96 (44)
Input AC Parameters			
Voltage Range	78-150 VAC		
Surge Protection	570J		
Voltage Range Without Battery	78-150 VAC		
Frequency	48-65 Hz (±0.1 Hz)		
Input Power Cord	10 ft. (3m) attached NEMA 5-15P	10 ft. (3m) attached NEMA L5-30P	
Output AC Parameters			
Voltage	110/120/127 VAC ±10% (configurable)		
Receptacles	(8) NEMA 5-15R	(8) NEMA 5-15R	(6) NEMA 5-15R (2) NEMA 5-20R T-slot
Frequency	50 Hz or 60 Hz (±0.5Hz, auto-sensing)		
Waveform	Sinewave		
Overload Warning	> 100-110%		
Overload Shutdown	> 200% after 15 cycles		
Battery Parameters			
Type	Valve-regulated, non-spillable, lead acid		
Battery Time (mins) (FL/HL)	11/26	5/16	5/16
Qty. x Voltage x Rating	4 x 12 V x 7 AH	4 x 12 V x 7 AH	6 x 12 V x 7 AH
Transfer Time	2-6 ms typical		
Back-up Time	See Battery Run Time Charts		
Recharge Time	4 hours		
	to 95% capacity, after full discharge into 100% load		
Environmental			
Operating Temperature	+32°F to +104°F (0°C to +40 C)		
Storage Temperature	+5°F to +122°F (-15°C to +50°C)		
Relative Humidity	0% to 95%, non-condensing		
Operating Elevation	Up to 10,000 ft. (3000 m) at 35°C without derating		
Audible Noise	Max 50 dBA		Max 60 dBA
Agency			
Safety	UL 1778, cULus Listed		
RFI/EMI	FCC Part 15, Class B		FCC Part 15, Class A
Transportation	ISTA Procedure 1A Certification		
Immunity	ANSI C62.41, EN61000-4-2, 3, 4, 5, 6, EN61000-3-2, 3		

Note: These units are designed for EIA STD 19" wide rails and the UPS faceplate is 19" wide.

Sola 3K2U Extended Battery Options

Battery Cabinet Specifications			
Catalog Number	S3K48BAT		S3K72BAT
UPS Rated VA	1000	1440	2200
Dimensions (H x W x D)	3.43 in x 17 in x 22 in (87 mm x 430 mm x 557 mm)		3.43 in x 17 in x 24 in (87 mm x 430 mm x 612 mm)
Weight (lb/kg)	66.1/30		118.1/53.6
Battery Parameters			
Type	Valve-regulated, non-spillable, lead acid		
Qty. x Voltage x Rating	2 strings of 4 x 12V x 7Ah		2 strings of 6 x 12V x 9Ah
Back-up Time	See Battery Run Time Charts		
Recharge Time	4 hours to 90% of rated capacity, after full discharge into resistive load		
Environmental			
Operating Temperature	32°F to 104°F (0°C to 40°C)		
Storage Temperature	5°F to 104°F (-15°C to 40°C)		
Relative Humidity	0% to 95%, non-condensing		
Operating Altitude	Up to 10,000 ft. (3000 m) at 95°F (35°C) without derating		
Audible Noise	<40 dBA, internal fan(s) off, <55 dBA, internal fan(s) on		
Agency			
Safety	UL 1778, cULus Listed, EN 62040-1-1, TUV/GS Listed, CE Marked		
Emmissions	FCC Part 15, Class B; EN 50091-2, Class B		
Transportation	ISTA Procedure 1A Certification		

Sola 3K2U Battery Run Times

	Load %	1000 VA	1440 VA	2200 VA
Internal Battery (minutes)	10	118	79	73
	20	65	45	47
	30	41	28	26
	40	37	24	23
	50	26	16	16
	60	24	14	13
	70	18	10	10
	80	16	9	8
	90	12	6	6
	100	11	5	5

Sola 3K2U Battery Run Times - continued

	Load %	1000 VA	1440 VA	2200 VA
Internal Battery +1 External Battery Cabinet (minutes)	10	305	265	266
	20	248	188	185
	30	177	125	135
	40	139	104	122
	50	119	72	99
	60	98	59	75
	70	75	45	55
	80	63	40	49
	90	53	35	44
	100	46	30	40
Internal Battery +2 External Battery Cabinet (minutes)	10	565	461	493
	20	409	283	291
	30	283	219	222
	40	248	177	194
	50	209	133	150
	60	166	122	137
	70	136	98	122
	80	127	84	107
	90	110	64	92
	100	98	56	77
Internal Battery +3 External Battery Cabinet (minutes)	10	1001	655	-
	20	565	409	493
	30	409	283	283
	40	305	257	266
	50	274	209	222
	60	248	166	185
	70	209	136	156
	80	188	125	141
	90	145	110	131
	100	136	95	120
Internal Battery +4 External Battery Cabinet (minutes)	10	1174	828	-
	20	828	565	590
	30	513	357	395
	40	461	292	300
	50	305	257	274
	60	283	230	240
	70	257	188	203
	80	239	156	173
	90	209	136	156
	100	188	125	144