

Sola 3K Mini-Tower Line-Interactive Uninterruptible Power Systems (UPS)

The S3K mini-tower is an economical choice for those applications requiring the performance of a sinewave output, line interactive UPS with the mini-tower shape for cabinet installations. The S3K Series UPS's protect against most severe power disturbances including over/under voltages through state of art, line-interactive technology. Most power disturbance corrections are accomplished without transferring to the internal battery. Utility power is continually protected by the S3K Series UPS's and internal battery life is optimized.

The UPS has built in protection for under and over voltage conditions including low-energy lightning surges introduced on the input power source. All S3K Series UPS are provided with an input circuit protector and surge protected data line connectors.

The S3K Series UPS's are provided with a battery test function to insure the capability of the battery to supply power in emergency 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 and process control
- Industrial automation systems
- Automatic service & dispensing equipment

Related Products

- Portable MCR Power Conditioners
- DIN Rail mounted SPD (Surge Suppressors)
- S3K2U Rack/Tower UPS



Features

- 700 - 1440 VA
- Line-Interactive with Data Line protection for telephone and network connections.
- Mini-Tower design for control cabinet installation.
- Automatic Voltage Regulation (AVR) topology saves battery power for deep voltage sag situations.
- Sinewave output
- User replaceable, "hot swappable" batteries (Downtime for battery replacement not required).
- RS-232 Communications port
- Built-in surge protection
- Cold start capability (DC power on)
- Telephone/Modem spike protection
- Power Management software is included (UPSMON).
- 50/60 Hz auto sensing
- Fully digitized, microprocessor controlled
- Protects against most adverse power conditions including:
 - Frequency variations
 - Surge
 - Sags
 - Spike
 - Blackouts
 - Over and under voltages

Plug & Receptacle Reference Chart

5-15P



5-15R



Selection Table

Capacity (VA/W)	Catalog Number	Volts, Frequency In/Out	Typical Runtime (minutes)*	Input Plug/Output Receptacle	Approx. Ship Weight lbs (kg)
700/480	S3K700	120/120, 50/60 Hz	5/14	(Detached) 5-15P / (4)5-15R	34.1 (15.5)
1000/750	S3K1000	120/120, 50/60 Hz	4/13	(Detached) 5-15P / (4)5-15R	37.0 (16.8)
1440/1200	S3K1600	120/120, 50/60 Hz	3/10	(Attached) 5-15P / (6)5-15R	70.4 (32)

* Full/Half Load (in minutes).

Sola 3K Mini-Tower Battery Run Time Chart

Load %	S3K700	S3K1000	S3K1600
10	86	82	52
20	45	37	27
30	28	27	16
40	21	18	12
50	14	13	10
60	11	10	8
70	9	8	6
80	7	6	5
90	6	5	4
100	5	4	3

Sola 3K Mini-Tower, 120 VAC Specifications

Catalog Number	S3K700	S3K1000	S3K1600
Power Rating (VA/Watts)	700/480	1000/750	1440*/1200
Dimensions inches (mm)			
Unit (H x W x D)	8.3 in x 5.5 in x 17.2 in (210 mm x 140 mm x 436 mm)		8.9 in x 6.7 in x 17.7 in (226 mm x 170 mm x 450 mm)
Shipping (H x W x D)	11.75 in x 10.5 in x 19.2 in (300 mm x 265 mm x 492 mm)		14.0 in x 12.0 in x 22.25 in (358 mm x 307 mm x 581 mm)
Approx. Shipping Weight - lbs (kg)	34.1 (15.5)	37 (16.8)	70.4 (32)
Input AC Parameters			
Voltage Range	103-132 VAC		
Plug	6 ft. detachable with NEMA 5-15P		Attached 5-15P
Line to Boost Transfer	Maintains output to 120 VAC; -14%, when input is 120 VAC, -25%		
Line to Buck Transfer	Maintains output to 120 VAC; +10%, when input is 120 VAC, +23%		
Frequency	45-55 Hz or 55-65 Hz; auto sensing		
Output AC Parameters			
Voltage	103 VAC to 132 VAC		
Receptacles	(4) NEMA 5-15R		(6) NEMA 5-15R
Frequency	50 Hz or 60 Hz \pm 0.5%		
Waveform	Sine wave		
Overload Warning	100-110% Nominal		
Overload Shutdown	200% Nominal		
Battery Parameters			
Type	Valve-regulated, non-spillable, lead acid		
Battery Time (mins) (FL/HL)	5/14	4/13	3/10
Qty. x Voltage x Rating	4 x 12 V x 7 AH		6 x 12 V x 7 AH
Transfer Time	2-4 ms typical		
Back-up Time	See Battery Run Time Charts		
Recharge Time	4 Hours to 90% 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 +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	<40 dBA, (beyond 1 m)		<45 dBA, (beyond 1 m)
Agency			
Safety	UL 1778, cULus Listed		
RFI/EMI	FCC Part 15, Class B		
Immunity	IEC 801-2, Level 4 / IEC 801-4, Level 4 / ANSI C62.41 Category A & B		

* Note: 1200W at 0.75 power factor equals 1600VA. Line cord limits total load to 1440 VA (max).