

S3K Mini-Tower Line-Interactive UPS

The SolaHD S3K Series 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 protects against most severe power disturbances through state-of-the-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 and internal battery life is optimized.

This 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 is provided with a battery test function. 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

Features

- Mini-Tower design for control cabinet installation
- Automatic voltage regulation (AVR) topology saves battery power for deep voltage sag situations
- Sine wave 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
- Two year limited warranty



Certifications and Compliances

- cULus Listed, UPS Equipment - UL 1778, CSA C22.2 No. 107.3
- IEC 60801-2, Level 4 / IEC 60801-4, Level 4 / ANSI C62.41 Category A & B
- RoHS Compliant

Related Products

- Portable MCR Power Conditioners
- Surge Protective Devices
- Active Tracking® Filters

Battery Back-up Times Chart

Model	S3K-700	S3K-1000	S3K-1600
Load (%)	Run-Time (minutes)		
20%	48	34	36
40%	21	14	15
50%	15	11	11
70%	9	7	7
100%	5	4	3

Note: Run times in this table are approximate. They are based upon new, fully charged standard battery modules at a temperature of 25°C (77°F) with 100% resistive UPS loading. Run times listed above can vary by +/-5% due to manufacturing variances of the individual batteries.

Selection Table

Capacity (VA/W)	Catalog Number	Volts, Frequency (In/Out)	Typical Back-up Time (minutes)*	Input Plug/Output Receptacle	Approx. Ship Weight lbs (kg)
700/480	S3K700	120/120, 50/60 Hz	5/15	(Detached) 5-15P / (4)5-15R	34.1 (15.50)
1000/750	S3K1000	120/120, 50/60 Hz	4/11	(Detached) 5-15P / (4)5-15R	37.0 (16.80)
1440/1200	S3K1600	120/120, 50/60 Hz	3/11	(Attached) 5-15P / (6)5-15R	70.4 (32.00)

* Full/Half Load (in minutes).

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)	8.30 x 5.50 x 17.20 (210.0 x 140.0 x 436.0)		8.90 x 6.70 x 17.70 (226.0 x 170.0 x 450.0)
Shipping (H x W x D)	11.75 x 10.50 x 19.20 (300.0 x 265.0 x 492.0)		14.00 x 12.00 x 22.25 (358.0 x 307.0 x 581.0)
Approx. Shipping Weight – lbs (kg)	34.1 (15.50)	37.0 (16.80)	70.4 (32.00)
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 ±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)	5/15	4/11	3/11
Qty. x Voltage x Rating	2 x 12 V x 7 AH		4 x 12 V x 7 AH
Transfer Time	2-4 ms typical		
Back-up Time	See Battery Back-up Times Charts		
Recharge Time	4 Hours		
	to 90% rated capacity, after full discharge into resistive load		
Environmental			
Operating Temperature	0°C to +40°C		
Storage Temperature	-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)
Standards			
EMC	FCC Part 15, Subpart B, Class A		

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