

## S3K Mini-Tower Line-Interactive UPS

The S3K 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.

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 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

| Load % Watts | S3K700 | S3K1000 | S3K1600 |
|--------------|--------|---------|---------|
| 20           | 45     | 37      | 27      |
| 40           | 21     | 18      | 12      |
| 50           | 14     | 13      | 10      |
| 70           | 9      | 8       | 6       |
| 100          | 5      | 4       | 3       |

Note: Back-up times are at 25°C with 100% capacity batteries and resistive loads.

## 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         | <b>S3K700</b>  | 120/120, 50/60 Hz         | 5/14                            | (Detached) 5-15P / (4)5-15R  | 34.1 (15.50)                 |
| 1000/750        | <b>S3K1000</b> | 120/120, 50/60 Hz         | 4/13                            | (Detached) 5-15P / (4)5-15R  | 37.0 (16.80)                 |
| 1440/1200       | <b>S3K1600</b> | 120/120, 50/60 Hz         | 3/10                            | (Attached) 5-15P / (6)5-15R  | 70.4 (32.00)                 |

\* Full/Half Load (in minutes).

## Specifications

| Catalog Number                            | S3K700                                                                     | S3K1000      | S3K1600                                          |
|-------------------------------------------|----------------------------------------------------------------------------|--------------|--------------------------------------------------|
| <b>Power Rating (VA/Watts)</b>            | 700/480                                                                    | 1000/750     | 1440 */1200                                      |
| <b>Dimensions inches (mm)</b>             |                                                                            |              |                                                  |
| <b>Unit (H x W x D)</b>                   | 8.30 x 5.50 x 17.20<br>(210.0 x 140.0 x 436.0)                             |              | 8.90 x 6.70 x 17.70<br>(226.0 x 170.0 x 450.0)   |
| <b>Shipping (H x W x D)</b>               | 11.75 x 10.50 x 19.20<br>(300.0 x 265.0 x 492.0)                           |              | 14.00 x 12.00 x 22.25<br>(358.0 x 307.0 x 581.0) |
| <b>Approx. Shipping Weight – lbs (kg)</b> | 34.1 (15.50)                                                               | 37.0 (16.80) | 70.4 (32.00)                                     |
| <b>Input AC Parameters</b>                |                                                                            |              |                                                  |
| <b>Voltage Range</b>                      | 103-132 Vac                                                                |              |                                                  |
| <b>Plug</b>                               | 6 ft. detachable with NEMA 5-15P                                           |              | Attached 5-15P                                   |
| <b>Line to Boost Transfer</b>             | Maintains output to 120 Vac; -14%, when input is 120 Vac, -25%             |              |                                                  |
| <b>Line to Buck Transfer</b>              | Maintains output to 120 Vac; +10%, when input is 120 Vac, +23%             |              |                                                  |
| <b>Frequency</b>                          | 45-55 Hz or 55-65 Hz; auto sensing                                         |              |                                                  |
| <b>Output AC Parameters</b>               |                                                                            |              |                                                  |
| <b>Voltage</b>                            | 103 Vac to 132 Vac                                                         |              |                                                  |
| <b>Receptacles</b>                        | (4) NEMA 5-15R                                                             |              | (6) NEMA 5-15R                                   |
| <b>Frequency</b>                          | 50 Hz or 60 Hz ±0.5%                                                       |              |                                                  |
| <b>Waveform</b>                           | Sine wave                                                                  |              |                                                  |
| <b>Overload Warning</b>                   | 100-110% Nominal                                                           |              |                                                  |
| <b>Overload Shutdown</b>                  | 200% Nominal                                                               |              |                                                  |
| <b>Battery Parameters</b>                 |                                                                            |              |                                                  |
| <b>Type</b>                               | Valve-regulated, non-spillable, lead acid                                  |              |                                                  |
| <b>Battery Time (mins) (FL/HL)</b>        | 5/14                                                                       | 4/13         | 3/10                                             |
| <b>Qty. x Voltage x Rating</b>            | 4 x 12 V x 7 AH                                                            |              | 6 x 12 V x 7 AH                                  |
| <b>Transfer Time</b>                      | 2-4 ms typical                                                             |              |                                                  |
| <b>Back-up Time</b>                       | See Battery Back-up Times Charts                                           |              |                                                  |
| <b>Recharge Time</b>                      | 4 Hours<br>to 90% rated capacity, after full discharge into resistive load |              |                                                  |
| <b>Environmental</b>                      |                                                                            |              |                                                  |
| <b>Operating Temperature</b>              | 0°C to +40°C                                                               |              |                                                  |
| <b>Storage Temperature</b>                | -15°C to +50°C                                                             |              |                                                  |
| <b>Relative Humidity</b>                  | 0% to 95%, non-condensing                                                  |              |                                                  |
| <b>Operating Elevation</b>                | Up to 10,000 ft. (3000 m) at 35°C without derating                         |              |                                                  |
| <b>Audible Noise</b>                      | <40 dBA, (beyond 1 m)                                                      |              | <45 dBA, (beyond 1 m)                            |
| <b>Standards</b>                          |                                                                            |              |                                                  |
| <b>EMC</b>                                | FCC Part 15, Subpart B, Class A                                            |              |                                                  |

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