



# Sun Star Series 1KVA - 10KVA

High Frequency Online UPS Sun Star Series  
S Series 1KVA - 10KVA (1ph in / 1ph out)



## Key Features:

- Double Conversion True Online UPS With Pure Sine-Wave Output
- Robust Design, Conformal Coating, Strong Anti-Corrosion Capability For Harsh Environment
- Extra Wide Input Voltage (90V-300Vac), Well Compatible With Gen-Set
- Input Power Factor Correction, Save Power, Wiring Expense For Use
- Strong Loading Capability, Work Well With Laser Printer, Ultrasonic Cleaner
- Compact Size, Win Valuable Space For User
- Open For Customization, Seamless Integrate With Automatic Control System

**Shenzhen UPSen Electronic CO., Ltd.**  
[www.upsen.net](http://www.upsen.net)

# Technical Specification:

| Tower Model  | S1K   | S1KL                               | S2K          | S2KL                               | S3K          | S3KL   | S6K          | S6KL                               | S10K          | S10KL                              |
|--|---|------------------------------------|--------------|------------------------------------|--------------|--|--------------|------------------------------------|---------------|------------------------------------|
| Phase  | Single phase (L/N+PE)   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Capacity   | 1KVA / 900W   |                                    | 2KVA / 1.8KW |                                    | 3KVA / 2.7KW |  | 6KVA / 5.4KW |                                    | 10KVA / 9KW   |                                    |
| <b>Input</b>   |   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Nominal Input Voltage  | 208/220/230/240Vac  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Input Voltage Range  | 90~300VAC ±5VAC   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Frequency  | 50 / 60 Hz  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Input Frequency Range  | 40~70Hz   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Input Power Factor   | > 0.99  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Bypass Voltage Range   | 180 ~ 265VAC *(1±3%)  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| <b>Output</b>  |   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Output wiring system   | Single phase (L/N+PE)   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Output Voltage   | 208/220/230/240Vac ±2%  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Output Voltage Regulation  | 1%  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Output Frequency   | 50/60±4Hz (Sync mode); 50/60Hz±1% (Fix Freq. mode)  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Overload Capability  | 105 ~ 125% ≥ 60s, 126 ~ 150% ≥ 30s The recover point is 70%   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Output THDV%   | THD<2% (linear load) ; THD<7% (nonlinear load)  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Output Waveform  | Pure Sine Wave  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| <b>Transfer Time</b>   |   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Line mode ↔ Bat Mode   | 0ms   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Inv ↔ Bypass Mode  | <4ms  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| <b>Efficiency</b>  |   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Line Mode  | 86%   |                                    | 88%          |                                    | 89%          |  | 92%          |                                    | 93%           |                                    |
| Battery Mode   | 85%   |                                    | 86%          |                                    | 87%          |  | 92%          |                                    | 93%           |                                    |
| <b>Battery &amp; Charger</b>   |   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Nominal Voltage  | 24V   | 24V/36V                            | 48V          | 48V/72V                            | 72V          | 72V/96V  | 192V         | 144V/192V                          | 192V / 240V   |                                    |
| Battery Voltage / Capacity   | 2*12V/7AH   | External Battery                   | 4*12V/7AH    | External Battery                   | 6*12V/7AH    | External Battery   | 12*12V/7AH   | External Battery                   | 16/20*12V/7AH | 192V/240V External Battery         |
| Battery Type   | Valve Regulated Maintenance Free Lead Acid (VRLA) for Standard Model with Internal Battery                      |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Backup Time  | Half loaded ≥ 8minutes, Full loaded ≥ 3minutes(standard)  |                                    |              |                                    |              | Half loaded ≥ 6minutes, Full loaded ≥ 3minutes(standard) |              |                                    |               |                                    |
| Recharge Time  | ~5 Hours  | Subject to External Battery Config | ~5 Hours     | Subject to External Battery Config | ~5 Hours     | Subject to External Battery Config                       | ~5 Hours     | Subject to External Battery Config | ~5 Hours      | Subject to External Battery Config |
| Recharge Current   | 1A  | 4A                                 | 1A           | 4A                                 | 1A           | 4A   | 1A           | 4A                                 | 1A            | 4A                                 |
| <b>HMI</b>   |   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Display  | LCD   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Buzzer Alarm   | Bat.Mode / Bat.Low / OverLoad / Fault   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Communication Port   | Standard: RS232+EPO/ROO+USB PORT; SNMP Card Slot (Option)   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Alarm Function   | AC / DC input under abnormal, overload condition and Inverter problems  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Protection Function  | AC input or output above or below the range of voltage, overload, over temperature and short circuit protection |                                    |              |                                    |              |  |              |                                    |               |                                    |
| <b>Physical</b>  |   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Machine Size-W*D*H(mm)   | 144*325*224   |                                    | 190*368*323  |                                    | 190*368*323  |  | 190*566*472  | 190*399*323                        | 190*562*340   | 190*562*340                        |
| Package Size-W*D*H(mm)   | 250*411*320   |                                    | 295*460*435  |                                    | 295*460*435  |  | 335*670*665  | 295*460*435                        | 335*670*665   | 290*625*430                        |
| Net Weight(KG)   | 8.4   | 4.5                                | 16           | 6                                  | 20.7         | 7.7  | 48.3         | 9.9                                | 50.1          | 13.5                               |
| Gross Weight(KG)   | 9.5   | 5.6                                | 17.4         | 7                                  | 22           | 9.5  | 55           | 11.4                               | 56.8          | 15.2                               |
| <b>Environment</b>   |   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Humidity   | 5 ~ 97% (Non Condensing)  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Operating Ambient Temperature  | 0~40°C  |                                    |              |                                    |              |  |              |                                    |               |                                    |
| Audible Noise  | <50dB   |                                    |              |                                    |              | <55dB  |              |                                    |               |                                    |
| *External Battery Pack Rated Voltage Can Select Upon Order, 192 / 240V |   |                                    |              |                                    |              |  |              |                                    |               |                                    |
| *Product Specifications are Subject to Change Without Notice.          |   |                                    |              |                                    |              |  |              |                                    |               |                                    |