

**UPSEN**  
EXPERT POWER SUPPLIER

# Sun Star Series 1KVA - 10KVA

High Frequency Online UPS Sun Star Series  
RS 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:

Rack Mount Model	RS1K	RS1KL	RS2K	RS2KL	RS3K	RS3KL	RS6KL	RS10KL	
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	72V	72V	48V/96V	192V / 240V		
Battery Voltage / Capacity	2*12V/7AH	External Battery	4*12V/7AH	External Battery	6*12V/7AH	External Battery	External Battery		
Battery Type	Valve Regulated Maintenance Free Lead Acid (VRLA) for Standard Model with Internal Battery								
Backup Time	Half loaded ≥ 6minutes, Full loaded ≥ 2minutes(standard)						Dependent on the capacity of external batteries		
Recharge Time	~5 Hours	Subject to External Battery Config	~5 Hours	Subject to External Battery Config	~5 Hours	Subject to External Battery Config	Subject to External Battery Config	Subject to External Battery Config	
Recharge Current	1A	4A	1A	4A	1A	4A	4A	4A	
<b>HMI</b>									
Display	LCD								
Buzzer Alarm	Bat.Mode / Bat.Low / OverLoad / Fault								
Communication Port	Standard: RS232+EPO/ROO+USB PORT; RS485 Port, Dry contact, 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)	440*400*88		440*400*88		440*500*88	440*500*88	440*500*88		
Package Size-W*D*H(mm)	495*540*195		495*540*195		540*610*195	540*610*195	540*610*195		
Net Weight(KG)	10.3	6.7	15.3	7.3	19.8	8.7	10.8	12.6	
Gross Weight(KG)	11.7	8.2	16.6	8.6	21.6	10	12.6	14.3	
<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.									