

R Series Lithium UPS (1-3kVA)

Product Introduction



R-series lithium UPS (1~3kVA) is an online double-conversion UPS, ideal for small-scale scenarios. It eliminates grid issues, supports rack-mount installation, and operates at up to 96% efficiency. The compact design and high power density, along with R-series lithium battery backup, save installation space. It supports automatic start-up and is suitable for unmanned sites. Optional intelligent cards enable comprehensive UPS status monitoring.

Application

- Small and medium-sized enterprises, large enterprise branches, and bank branches with small-scale data centers.
- AC power supply for networks, communication systems, and automated control systems.
- AC power supply for precision instruments and equipment.

Features and Values

Green

- Under dual conversion mode, efficiency reaches up to 96%, highly efficient and energy-saving.
- In ECO mode, efficiency reaches up to 99%, providing economic and reliable performance.

Reliability

- Ultra-wide voltage input range, easily copes with harsh electricity environments.
- Advanced DSP control technology, with self-fault diagnosis and processing capabilities.
- Independent air duct design, ensuring more reliable overall operation.
- Long-life lithium iron phosphate battery design, with a service life of up to 10 years, no need to replace batteries.

Safety

- Optimized grid adaptability, perfect compatibility with generators.
- Comprehensive warning and protection functions, automatic start-up detection, ensuring equipment safety.

Minimalist

- Automatic mains start-up, supports unmanned operation.
- Intelligent screen displays parameters, providing clear equipment status.
- Compact size, flexible installation, effectively saving installation space.
- Digital control, ultra-long endurance, supports low-current discharge.

Technical Parameters

Model		R1K-Li	R1KS-Li	R2K-Li	R2KS-Li	R3K-Li	R3KS-Li
Capacity kVA/W		1kVA/900W		2kVA/1800W		3kVA/2700W	
Topology		Double Conversion Online UPS					
Phase		Single Phase Input Single Phase Output					
Mains Input	Wiring	L/N+PE					
	Rated Voltage	220/230/240VAC					
	Voltage Range	90~300VAC					
	Frequency Range	40Hz~70Hz					
	Input Power Factor	≥ 0.99					
AC Output	Wiring	L/N+PE					
	Output Voltage	220/230/240VAC					
	Voltage Regulation	±1%					
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)					
	Waveform	Sine Wave					
	Distortion (THDV%)	<1%(Linear Load)					
		<6%(None-Linear Load)					
Over load capability	1Min@105%~125%Rated Load 30Sec.@125%~150%Rated Load 0.5Sec.@>150%Rated Load						
Battery & Charger	Rated Battery Voltage	51.2VDC	51.2VDC External	51.2VDC	51.2VDC External	51.2VDC	51.2VDC External
	Battery Capacity	1000WH	External	1000WH	External	1000WH	External
	Backup Time	>120mins @ Half Load	Battery Depends	>60mins @ Half Load	Battery Depends	>30mins @ Half Load	EBattery Depends
	Charging Current	4A (standard) /10A (Optional)					
Physical	Chassis Style	RACK					
	Rack Dimension	1K: 438x44(2U)X400MM		2K: 438x88(2U)X400MM		3K: 438x88(2U)X500MM	
		1KS: 438x44(2U)X360MM		2KS:438x88(2U)X360MM		3KS:438x88(2U)X360MM	
Weight	18.5kg	8.5kg	21.5kg	11.5kg	22kg	12kg	
HMI	LCD DISPLAY with LED indicator	Input/Output Voltage, Frequency, Load level, Operation Mode, Health Status					
	Communication Port	1. RS232 PORT 2. Network Card: Support SNMP,TCP/IP Protocol , for remote monitor the UPS via Smart Phone APP, Web page, PC Monitor Software , Support Server / NAS shutdown					
	BMS Port	1.Modbus 2.Control BMS (Battery Management System) charge and discharge dry contact					
Operating Environment Endurance	Temperature range	-10~50°C					
	Relative Humidity	0-98% ((Non-condensing)					
	Acoustics Noise	<50dB @ 1 meters					