

R Series Lithium UPS (6-10kVA)

Product Introduction

R-series lithium UPS (6~10KVA) 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		R6KS-Li	R8KS-Li	R10KS-Li
Capacity kVA/W		6kVA/5400W	8kVA/7200W	10kVA/9000W
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	10Min@105%~125%Rated Load 60Sec.@125%~150%Rated Load 0.5Sec.@>150%Rated Load			
Efficiency	Mains Mode	>96%	>96%	>96%
	Battery Mode	>90%		
Battery & Charger	Rated Battery Voltage	192VDC-240VDC		
	Battery Capacity	External Battery Depends		
	Backup Time			
	Float Charge Voltage	227.2V(3.55x64s) / 284V(3.55x80s)Customized according to battery request		
	Charging Current	4A (standard)		
Physical	Chassis Style	RACK		
	Rack Dimension	438x88(2U)X500mm		
	Weight	10.8kg	12.6kg	12.6kg
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	<55dB @ 1 meters		