

Product Introduction

R-series lithium UPS (10~20KVA) 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		3R10KS-Li	3R15KS-Li	3R20KS-Li
Capacity kVA/kW		10kVA/9kW	15kVA/13.5kW	20kVA/18kW
Topology		Double Conversion Online UPS		
Phase		Three Phase Input Single Phase Output		
Mains Input	Wiring	L/N+PE/(L1/L2/L3/N)+PE		
	Voltage Range	Single Phase: 90~300VAC Three Phase: 150~500VAC		
	Frequency Range	40Hz~70Hz		
	Input Power Factor	≥ 0.99		
AC Output	Wiring	L/N+PE		
	Output Voltage	L-N:208/220/230/240Vac		
	Voltage Regulation	±1%		
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)		
	Waveform	Sine Wave		
	Distortion (THDV%)	<1%(Linear Load)		
		<5%(None-Linear Load)		
Over load capability	Mains Mode, Battery Mode (240VDC) : 10Min@105%~125%Rated Load 30Sec.@125%~150%Rated Load 0.5Sec.@>150%Rated Load			
	Battery Mode (192VDC) : 10Sec.@102%~110%Rated Load 0.5Sec.@>110%Rated Load			
Efficiency	Mains Mode	>96%		
	Battery Mode	192VDC: >92% / 240VDC: >93%		
Battery & Charger	Rated Battery Voltage	192VDC/240VDC		
	Battery Capacity Backup Time	External Battery Depends		
	Float Charge Voltage	227.2V(3.55x64s) / 284V(3.55x80s)Customized according to battery request		
	Charging Current	4A (standard)		
Physical	Rack Dimension	438x132x530MM	438x176x530MM	438x176x530MM
	Weight	14.5kg	24.5kg	24.5kg
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	0~40°C		
	Relative Humidity	0-98% ((Non-condensing)		
	Acoustics Noise	<55dB @ 1 meters		