R Series Lithium UPS (1-3kVA)

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. 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 equipments.

Features and Values

Green

- In dual conversion mode, efficiency reaches up to 95%, 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.

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	208/220/230/240VAC					
	Voltage Range	90~300VAC					
	Frequency Range	40Hz~70Hz					
	Input Power Factor	≥ 0.99					
AC Output	Wiring	L/N+PE					
	Output Voltage	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%)	<2%(Linear Load)					
		<8%(None-Linear Load)					
	Over Load Capability	1Min@105%~125% Rated Load 10Sec.@125%~150% Rated Load 0.3Sec.@>150% Rated Load					
Battery & Charger	Rated Battery Voltage	48/51.2VDC(default for 16 cell of LiFePO4)					
	Battery Capacity	615WH	External Battery Depends	920WH	External Battery Depends	1250WH	External Battery Depends
	Backup Time	>30mins @ Full Load		>20mins @ Full Load		>20mins @ Full Load	
	Charging Current	4A Standard					
Physical	Chassis Style	Rack					
	Rack Dimension	1K: 438x44(1U)X400MM 1KS: 438x44(1U)X400MM		2K: 438x88(2U)X500MM 2KS:438x88(2U)X400MM		3K: 438x88(2U)X612MM 3KS:438x88(2U)X400MM	
	Weight	13.0kg	6.5kg	18.5kg	6.8kg	23.9kg	8.2kg
HMI	LCD Display with LED Indicator	Input/Output Voltage, Frequency, Load Level, Operation Mode, Battery Charge					
	Standards Communication	1. RS232/USB Card (not HID) 2. Dry Contact interface for BMS control 3. Modbus for BMS interface					
	Optional Extension Card	4.NetWork Card: Support SNMP/TCP/IP 5.RS485-Modbus Card, LAN (TCP IP)-Modbus Card					
Operating Environment Endurance	Temperature Range	-10~50℃					
	Relative Humidity	0-98% (Non-Condensing)					
	Acoustics Noise	<55dB @ 1 Meters					