R Series Lithium UPS (6-10kVA)

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. 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, effciency 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		R6KS-Li	R10KS-Li
Capacity kVA/W		6kVA/5.4kW	10kVA/9kW
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)	
		<7%(None-Linear Load)	
	Over Load Capaility	10Min@105%~125% Rated Load 60Sec.@125%~150% Rated Load 0.3Sec.@>150% Rated Load	
Efficiency	Mains Mode	>95%	>95%
	Battery Mode	>93%	
Battery & Charger	Charging Voltage	204.8/3.2*64VDC (Default for 64 cell of LiFePO4)	
	Battery Capacity	External Battery Depends	
	Charging Behavior &Protection	CC、CV、Floating、Turn-Off four states, Triple-loop Over-voltage Protection, Preset Over-temperature and Over-pressure switch interfaces	
	Charging Current	4A (Standard)	
Physical	Chassis Style	Rack	
	Dimension	440×88(2U)×493	
	Weight	10.8KG	11.9KG
HMI	LCD Display with LED Indicator	Input/Output Voltage, Frequency, Load Level, Operation Mode, Health Status	
	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	