R Series Lithium UPS (10-20kVA)

10-20kVA

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. 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		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 or (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%)	<2%(Linear Load)		
		<6%(None-Linear Load)		
	Over Load Capability	10Min@105%~125% Rated Load 30Sec.@125%~150% Rated Load 0.5Sec.@>150% Rated Load		
Efficiency	Mains Mode	>95%		
	Battery Mode	204.8VDC: >93%		
Battery & Charger	Rated Battery Voltage	204.8/3.2*64VDC (Default for 64 cell of LiFePO4)		
	Battery Capacity Backup Time	External Battery Depends		
	Charging Protection	CC、CV、Floating、Turn-Off four states, Triple-loop Over-voltage Protection		
	Charging Current	4A (Standard) /8A (Optional)		
Physical	Dimension	440x132(3U)x526MM	440x132(3U)x568MM	
	Weight	14.4KG	24.3KG	
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	-10~55℃		
	Relative Humidity	0-98% (Non-Condensing)		
	Acoustics Noise	<55dB @ 1 Meters		