

Rackmount 1-3kVA UPS

BLACK CURRENT



R-SD.1KH/2KH/3KH Series

This UPS adopts a double-conversion pure online architecture, featuring zero transfer time when switching between battery and mains power supply modes. It supports fixed-frequency output, which can effectively ensure the reliability of load power supply. Meanwhile, it utilizes advanced DSP digital control technology to provide stable and reliable sine wave power supply. Equipped with three-level inverter technology, it is energy-efficient with lower harmonics and can adapt to various loads.

PF1

Power Factor 1.0



Charging Current 1-12A



EMI Class B



Normal Mode Efficiency 94.5%*



Wide Input Voltage Range
110-300VAC

DUAL

Dual AC Output
(customized)



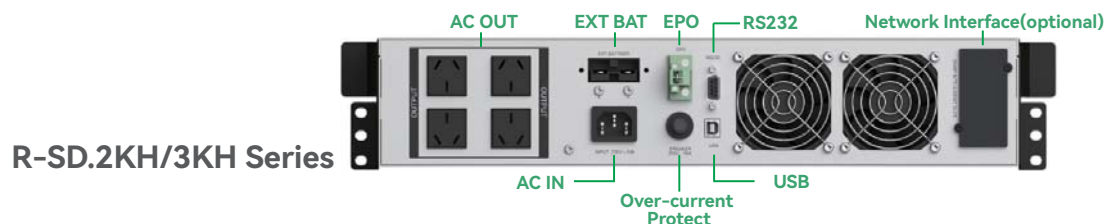
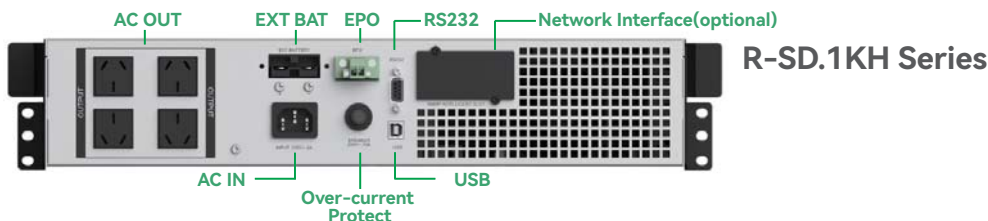
Smart Fan
Speed Control



Full Protection of Over-
voltage/current/temperature

*1KH: 93.5%; 2KH/3KH: 94.5%

Back Panel



Specifications

Model	R-SD.1KH-B24C1	R-SD.1KH-L3C1	R-SD.2KH-B48C1	R-SD.2KH-L6C1	R-SD.3KH-B72C1	R-SD.3KH-L8C1
Rated Power	1kVA/1kW		2kVA/2kW		3kVA/3kW	
Topology Type	Double Conversion Online UPS					
Input/Output Phase	Single Phase Input / Single Phase Output					
Input						
Input Wire	Single-phase two-wire(L, N)+PE					
Input Voltage Range	Neutral-to-Live Voltage: 110~300VAC					
Input Frequency Range	44~56Hz / 54~66Hz, default					
Input Power Factor	≥0.99					
Output						
Output Wire	Single-phase two-wire(L, N)+PE					
Rated Voltage	208/220/230/240VAC					
Output Voltage Accuracy	±1%					
Output Frequency	50/60±6Hz(Phase-Locked to Mains) / 50/60Hz±0.1%(Fixed Frequency Mode)					
Waveform	Pure Sine Wave					
Output Distortion	≤3%(Linear Load)					
THDV%	≤5%(Non-linear Load)					
Overload	Mains Mode:			Battery Mode:		
	30mins@102%-110% Rated Load			1min@102%-110% Rated Load		
	10min@110%-130% Rated Load			10s@110%-130% Rated Load		
	30s@130%-150% Rated Load			3s@130%-150% Rated Load		
	200ms@>150% Rated Load			200ms@>150% Rated Load		
Efficiency						
Mains Mode	93.50%		94.50%		94.50%	
Battery Mode	90.50%		93.50%		93.50%	
Battery and Charger						
Battery Voltage/Quantity ^①	24VDC/2PCS (Inside)	36VDC (Outside)	48VDC/4PCS (Inside)	72/48VDC (Outside)	72VDC/6PCS (Inside)	96VDC (Outside)
Battery Capacity	12V/7AH	Depends on	12V/7AH	Depends on	12V/7AH	Depends on
Backup Time	Half Load≥6 mins	outside battery	Half Load≥6 mins	outside battery	Half Load≥6 mins	outside battery
Charging Current	R-SD.1KH-B24C1/2KH-B48C1/3KH-B72C1 Standard UPS(battery inside): 1A R-SD.1KH-L3C1/2KH-L6C1/3KH-L8C1 Extended-run UPS(battery outside): 5A default (can be set to 12A maximally)					
Structure and Shape						
Structure	Rackmount Type					
Dimensions	3KH-B72C1: 438mm(W)x88mm(2U)(H)x533mm(D), including 6 pieces of 7AH inside battery Other Models: 438mm(W)x 88mm(2U)(H)x413mm(D)					
Weight(kg)	10	5.3	15.6	6.2	21.6	6.4
HMI						
LCD Display	Display input /output voltage, frequency, load percentage, working mode, and machine status					
Communication Interface	RS232(Standard Configuration) /USB/EPO					
Expansion Slot	Optional network monitoring card, supporting remote monitoring via PC and mobile phone, MODBUS, and dry contact card					
Environment						
Operating Temperature Range	-10 ~45℃					
Operating Humidity Range	0~98%(Non-condensing)					
Noise	<50dB @ 1 meter					

① Other battery configurations can be customized