

RM11-H High Frequency Series



Product Introduction

The RM11-H Series UPS (Uninterruptible Power Supply) is a newly designed and manufactured new-generation general-purpose power protection product. Adopting a rack-tower convertible structure and built on an on-line double conversion topology, this series can effectively address a wide range of power issues including grid outages, overvoltage, undervoltage, instantaneous voltage sags, damped oscillations, high-voltage pulses, voltage fluctuations, surges, harmonic distortion, noise interference and frequency fluctuations, delivering clean and stable power supply to user equipment.

Equipped with advanced DSP digital control technology, the product significantly enhances system performance and operational reliability, and achieves breakthroughs in high power density integration and miniaturization, creating a safer and more efficient power environment for all types of loads.

Application Scenarios

IT loads for government, finance, education, SMEs and public institutions.

Product Features

- | Online double-conversion design with microprocessor control.
- | LCD display for easy operation and maintenance.
- | Wide input voltage: 110-300 VAC, suitable for poor grid conditions.
- | Input power factor ≥ 0.99 ; green power design.
- | Output power factor 0.8 / 0.9 / 1.0 optional; strong load capability.
- | Utility-mode efficiency up to 94%+; energy saving.
- | Long-runtime models: charging current up to 12 A; multi-stage smart charging management.
- | Complete protection: under/over-voltage, short circuit, over-temperature, etc.
- | Standard RS232; optional SNMP card and USB.

1-10KVA Product Parameters

Model RM11-	1KL-H	1K-H	2KL-H	2K-H	3KL-H	3K-H	6KL-H	6K-H	10KL-H	10K-H						
	1KL-UNR	1K-UNR	2KL-UNR	2K-UNR	3KL-UNR	3K-UNR	6KL-UNR		10KL-UNR							
Capacity	1KVA		2KVA		3KVA		6KVA		10KVA							
Input	Input wiring	L+N+PE														
	Rated voltage	208/220/230/240VAC														
	Voltage range	110-300VAC														
	Frequency range	44-56Hz@50Hz/54Hz-66Hz@60Hz														
	power factor	≥ 0.99														
Output	Output wiring	L+N+PE														
	Output voltage	208/220/230/240VAC														
	Output accuracy	$\pm 1\%$														
	Output frequency	Online mode: follows utility frequency; Battery mode: 50/60 Hz ± 0.05														
	THDv	$\leq 2\%$ (linear load); $\leq 5\%$ (non-linear load)														
power factor	0.8/1.0															
Transfer time	Utility \rightarrow Battery: 0 ms; Inverter \rightarrow Bypass: 4 ms															
	Overload capability	Utility mode: 30 min@102%~110%load; 10 min@110%~130%load; 30 s@130%~150%load; 200 ms@>150%load														
		Battery mode: 30 min@102%~110%load; 10 min@110%~130%load; 30 s@130%~150%load; 200 ms@>150% load														
Efficiency (utility mode)	$>94.5\%$		$>95.5\%$		$>95.5\%$		$>95\%$		$>95\%$							
Battery	Battery voltage	36Vdc	Built-in 2x12V7AH batteries	72Vdc	Built-in 4x12V7AH batteries	96Vdc	Built-in 6x12V7AH batteries	192Vdc	Built-in 16x12V7AH batteries	192Vdc	Built-in 16x12V7AH batteries					
	Charging current	1-12A(max)	1A	1-12A(max)	1A	1-12A(max)	1A	1-12A(max)	1A	1-12A(max)	1A					
Display	LCD display shows mode/load/battery/input/output, etc.															
Communication	Standard RS232; optional SNMP card and USB															
Environment	Operating temperature	0-40C														
	Relative humidity	20%-95%RH (non-condensing)														
	Altitude	≤ 1000 m; above 1000 m, derate 1% per 100 m; max. 4000 m (ref. IEC 62040)														
Dimensions	Tower: LxWxH (mm)		145x315x319		145x400x219		190x454x322		190x454x700		190x454x322	190x454x700				
Weight (kg)	4.1		8.3		5.7		14.1		6.4		21		9.8	43.2	11.2	54.6
Dimensions	Rack: LxWxH (mm)		438x315x86.8		438x400x86.8		438x500x86.8		/		438x500x86.8		/			
Weight (kg)	4.8		9.8		8		16.4		8		21		8.8		/	

Note: Specifications are subject to change without prior notice.