

# RM11-L Lithium Battery Series



## Product Introduction

The Lithium Battery RM11-L Series is a low-to-medium power UPS with single-phase input and single-phase output, adopting DSP digital control technology, double-conversion online topology and three-level inverter design. Featuring a brand-new, highly reliable and multi-functional high-availability design, it integrates lithium battery packs with the control, charging and communication modules of the UPS as a whole, and achieves a power efficiency of over 94.5%, marking a milestone in high-frequency online design.

This product is widely used in IDCs (Internet Data Centers), networks, servers and workstations, control systems, communication systems, offices, PCs and other equipment.

## Application Scenarios

offices / government agencies / servers / schools / hospitals

## Product Features

- | DSP + online double-conversion; 3-level inverter for complex loads.
- | High-frequency rectifier + PFC; input PF  $\geq 0.99$ .
- | Stable output; PF up to 1.0 (1-10 kVA).
- | Strong overload / short-circuit capability. Stable under high non-linear load impact.
- | Efficiency up to 94.5%; supports 208/220/230/240 VAC, 50/60 Hz.
- | Adjustable charging 1-12 A; constant/float/equalize modes.
- | Wide input range 110-300 VAC (full load) to save battery life.
- | RS232 + USB monitoring; LCD/LED display.

## 1-10KVA Product Parameters

Model RM11-	01-UNR-LI	02-UNR-LI	03-UNR-LI	06-UNR-LI	10-UNR-LI
<b>Capacity</b>	1KVA/1KW	2KVA/2KW	3KVA/3KW	6KVA/6KW	10KVA/10KW
<b>Input</b>					
<b>Rated voltage</b>	208/220/230/240Vac,L+N+PE				
<b>Voltage range</b>	110-300Vac				
<b>Frequency range</b>	40-70Hz				
<b>Power factor</b>	$\geq 0.99$				
<b>THDI</b>	$\leq 4\%$ (linear); $\leq 5\%$ (non-linear)		$\leq 5\%$ (linear); $\leq 8\%$ (non-linear)		
<b>Output</b>					
<b>Rated voltage</b>	208/220/230/240Vac,L+N+PE				
<b>Voltage regulation</b>	$\pm 1\%$				
<b>Frequency</b>	50/60Hz $\pm 0.1\%$				
<b>THDV</b>	$\leq 2\%$ (linear); $\leq 5\%$ (non-linear)		$\leq 2\%$ (linear); $\leq 5\%$ (non-linear)		
<b>Transfer time</b>	0				
<b>Waveform</b>	Pure sine wave				
<b>Crest factor</b>	3:1				
<b>Overload capability (Utility mode)</b>	102%~110%: 30 min; 110%~130%: 10 min; 130%~150%: 30 s; >150%: 200 ms			102%~105%: 30 min; 105%~125%: 10 min; 125%~150%: 30 s; >150%: 500 ms	
<b>Overload capability (Battery mode)</b>	102%~110%: 1 min; 110%~130%: 10 s; 130%~150%: 3 s; >150%: 200 ms			102%~105%: 10 min; 105%~125%: 1 min; 125%~150%: 10 s; >150%: 500 ms	
<b>Efficiency</b>					
<b>Utility mode (AC)</b>	94.5%	95.5%	95.5%	95%	
<b>Battery mode</b>	88.5%	91.5%	91.5%	94.5%	
<b>ECO mode</b>	98%				
<b>Battery</b>					
<b>Nominal voltage</b>	48Vdc	48Vdc	48Vdc	192Vdc/240Vdc	
<b>BatteryQuantity</b>	External				
<b>Charging current</b>	1-12A				
<b>Management</b>					
<b>Ports</b>	RS232 / USB / SNMP card (optional) / Dry contacts (optional)				
<b>Environment</b>					
<b>Operating temperature</b>	0-40°C				
<b>Relative humidity</b>	0-95%RH (non-condensing)				
<b>Noise (1 m in front)</b>	$\leq 50$ dB				
<b>Altitude</b>	Up to 1,000 m without derating (at rated output).				
<b>Physical</b>					
<b>Dimensions (W×D×H) mm</b>	440x379x86	440x450x86	440x450x86	440x487x86	440x487x86
<b>Weight (kg)</b>	6	8	10.8	11	12

Note: Specifications are subject to change without prior notice.