

# RM33-L Lithium Battery Series



## Product Introduction

The Lithium Battery UPS33-L Series features a highly integrated design with outstanding power density. Compared with similar products, it saves more than 10% of installation space, significantly improving deployment economics. Supporting center-line-free battery configuration, this series is highly compatible with lithium battery systems, offering flexible expansion and strong adaptability. The product adopts all-round protection design at the system, circuit and component levels to ensure stable and reliable operation in various harsh environments. Equipped with a large-size color touch screen, it provides an intuitive graphical user interface, simplifying human-machine interaction and enhancing operation and maintenance efficiency. Internally, it adopts a highly integrated circuit board architecture, which effectively reduces assembly complexity and risks of manual operation. The heat dissipation system is optimized with sufficient margin, enabling the system to maintain normal operation at 70% load even in the event of a single fan failure, ensuring continuous system availability.

## Application Scenarios

Government, finance, telecommunications, education, transportation, meteorology, radio and television, industry and commerce taxation, healthcare, energy and power, and various other industrial sectors.

## Product Features

- | High power density; saves >10% footprint
- | Value-driven; optional neutral-less battery; Li-ion ready
- | Harsh-environment ready; multi-level protection
- | Color touch LCD; easy HMI
- | High-integration PCB; fewer assembly errors
- | Robust cooling; 70% load with one fan failed

## 200-600KVA online Tower Product Parameters

Model RM33-	200-H-LI	300-H-LI	400-H-LI	500-H-LI	600-H-LI
Capacity	200KVA/200KW	300KVA/300KW	400KVA/400KW	500KVA/500KW	600KVA/600KW
Wiring	3Ph+N+PE				
Input voltage	380/400/415 VAC (line); 220/230/240 VAC (phase)				
Input Frequency	50/60Hz				
Power factor	>0.99				
THDi	THDi<2%(100%linear load)				
Voltage range	304~478 VAC (line) full load; 228~304 VAC (line) linear derating (load 100% → 50%)				
Frequency range	40-70Hz				
Battery voltage	3-wire: ±240 VDC (30-50 cells adjustable) Optional 2-wire: 480 VDC (50-50 cells adjustable)				
Charging power	Max. 20% × active power				
Charging voltage accuracy	±1%				
Bypass voltage	380/400/415VAC(line); 220/230/240VAC(phase)				
Voltage range	Adjustable; default -20% to +15%; Upper limit: +10% / +15% / +20% / +25%; Lower limit: -10% / -15% / -20% / -30% / -40%				
Overload capability	125% < load < 130%: ≥ 10 min 130% < load < 150%: ≥ 1 min >150%: 300 ms	110%: continuous 101% < load < 125%: ≥ 5 min 125% < load < 150%: ≥ 1 min >150%: 1 s,			
Rated output voltage	380/400/415VAC(line);220/230/240VAC(phase)				
Rated frequency	50/60Hz				
Output Power factor	1				
Voltage accuracy	±1.0%				
Dynamic voltage response	<5%(20%-80%-20%step load)				
Recovery time	<20ms(0%-100%-0%step load)				
THDu	<1%(linear), <5%(non-linear)				
Inverter overload	110%: transfer to bypass after 1 h; 125%: after 10 min; 150%: after 1 min; >150%: after 200 ms				
Frequency accuracy	0.1%				
Sync tracking range	Adjustable:±0.5 Hz to ±5 Hz (default ±3 Hz)				
Sync tracking rate	Adjustable: 0.5-3 Hz/s (default 0.5 Hz/s)				
Crest factor	3: (1max)				
3-phase accuracy	120°±0.5°				
System Efficiency	Main mode ≥ 97%; Battery mode ≥ 97%				
Display	LCD+LED+7-inch display	LCD+LED+10-inch display			
Safety standards	IEC62040-1,IEC60950-1				
EMC	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT);IE C61000-4-5(Surge)				
IP rating	IP20				
Standard	USB, RS-232, RS-485, dry contact card, battery cold start, dust filter				
Options	SNMP card, dry contacts card, parallel kit, lightning protection kit, top air outlet kit, APP WIFI/Bluetooth				
Cable entry	Front top entry; ptional front bottom entry	Compatible with top/bottom entry			
Working environment	0-40°C (operating); -25-70°C (storage); 0-95% RH (non-condensing)				
Noise (1 m in front)	68 dB @ 100% load; 65 dB @ 45% load				
Cabinet (W×D×H) mm	600×750×1600	600×750×2000	600×850×2000	1200×850×2000	
Module (W×D×H) mm	440×475×140				

Note:Specifications are subject to change without prior notice.