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CONTAINER ENERGY STORAGE SYSTEM

RV-MG-3354 / RV-MG-5016

Liquid-cooled energy storage
for commercial, industrial and grid applications.



3354 kWh	5016 kWh	1331.2 V	IP55
RV-MG-3354	RV-MG-5016	Nominal DC Voltage	Enclosure Protection

Liquid Cooling

Automatic balancing for battery efficiency.

Modular Design

Flexible expansion and easy maintenance.

Real-time Monitoring

Battery monitoring and EMS connectivity.

Integrated Safety

1230 fire suppression and system monitoring.

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TECHNICAL SPECIFICATIONS

RV-MG-3354 / RV-MG-5016

DC BATTERY DATA

Parameter	RV-MG-3354	RV-MG-5016
Battery Cell Type	LiFePO4 (LFP)	
Cell Rated Capacity	280 Ah	314 Ah
Rated Battery Energy	**3354 kWh**	**5015.96 kWh***
Battery Configuration	(1P416S) x 9P	(1P416S) x 12P
Number of Parallel Strings	9	12
Rated Charge / Discharge Rate	≤0.5C	
Nominal DC Voltage	1331.2 V	
Operating DC Voltage Range	1164.8-1497.6 V	
Cooling Method	Liquid cooling	



Container exterior illustration | Actual configuration may vary.

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CONTAINER & OPERATING PARAMETERS

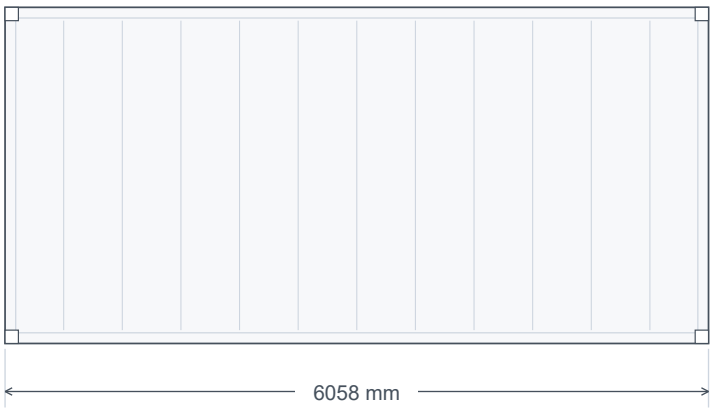
RV-MG-3354 / RV-MG-5016

GENERAL DATA

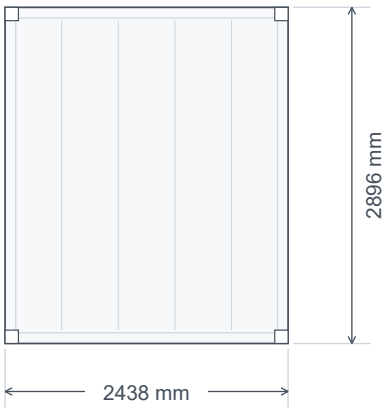
Parameter	RV-MG-3354	RV-MG-5016
Dimensions (L x W x H)	6058 x 2438 x 2896 mm	
System Weight	<35 metric tons	<45 metric tons
Ingress Protection	IP55	
Operating Temperature	-20°C to +50°C	
Relative Humidity	0-95% (non-condensing)	
Maximum Altitude	5000 m (derating above 2000 m)	
Cooling Method	Liquid cooling	
Fire Suppression System	1230 fire fighting system	
Communication Interfaces	CAN / RS485	
Communication Protocols	Modbus / IEC 104	
Delivery Method	Assembled container transportation	

OUTLINE DIMENSIONS

SIDE ELEVATION



END ELEVATION

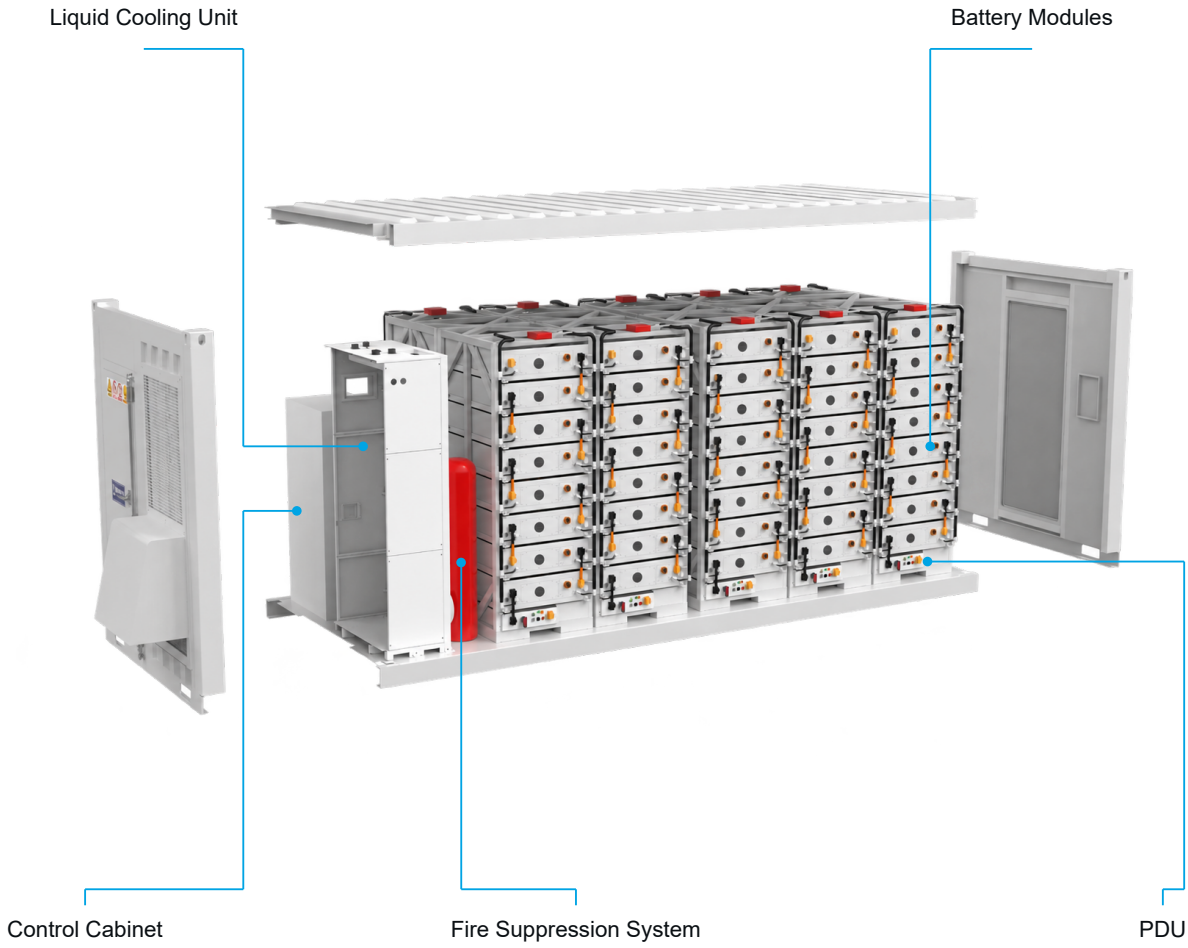


Outline dimensions only. Installation and service clearances are project-specific.

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SYSTEM ARCHITECTURE

RV-MG-3354 / RV-MG-5016



Liquid-cooled battery container | Illustrative configuration

CONTROL & MONITORING

- Real-time battery system monitoring
- EMS access and remote system viewing
- CAN / RS485 communication
- Modbus / IEC 104 protocols
- Multiple operating modes

SERVICE & TRANSPORT

- Integrated, standardized container design
- Modular design for system expansion
- Assembled container transportation
- Liquid cooling and automatic balancing
- 1230 fire suppression system

System-level AC functions use a project-configured PCS and associated electrical equipment.

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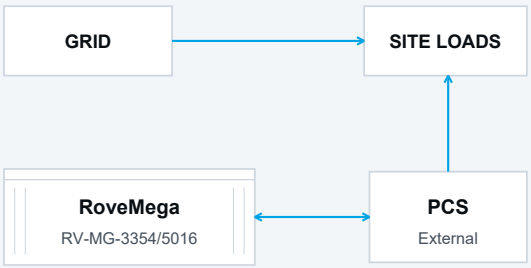
APPLICATION SCENARIOS

RV-MG-3354 / RV-MG-5016

01 Power Expansion

Supply additional power when site demand exceeds the available distribution capacity.

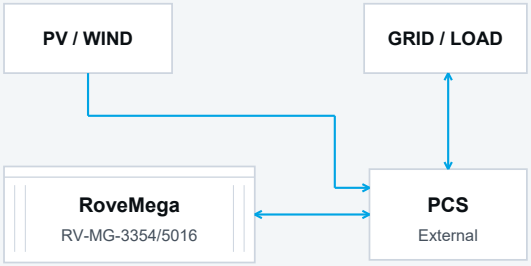
Factories / charging stations



02 Renewable Energy Integration

Store surplus renewable energy for later use, including evening discharge.

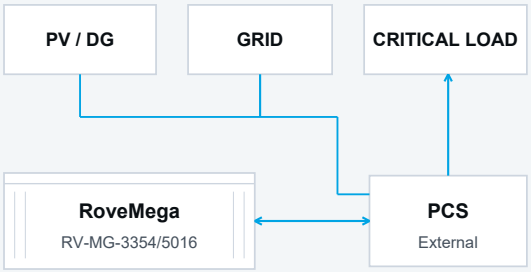
PV plants / wind farms / hybrid charging



03 Microgrid & Backup Power

Support backup power and microgrid operation for areas with limited grid access.

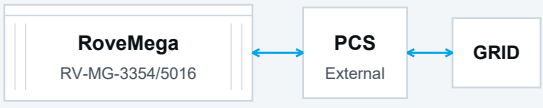
Factories / remote sites / charging stations



04 Demand Response

Support grid dispatch and participate in demand response programs.

Factories / office blocks / shopping malls



Grid dispatch support

Specifications are subject to change. PCS and application functions depend on project configuration.