ROVON POWER

rove on, power on

RoveRack

RACK-MOUNTED HV LFP BATTERY

RV-RH-20 / 25 / 30 / 35 / 40 / 46

Flexible energy storage
for commercial applications.



20.48-46.08 kWh	204.8-460.8 V	100 Ah	≥6000
Energy Range	Nominal Voltage	Module Capacity	Cycle Life*

* Tested at 25±2°C, 0.5C charge / discharge, EOL 70%.

Modular Expansion
4-9 battery modules
Flexible energy capacity.

Intelligent BMS
Battery protection
for reliable operation.

19-inch Rack Design
Standard rack modules
Easy to install and service.

Wide Temperature
-20°C to 55°C
Discharge operation.

RoveRack

TECHNICAL SPECIFICATIONS

RV-RH-20 / 25 / 30 / 35 / 40 / 46

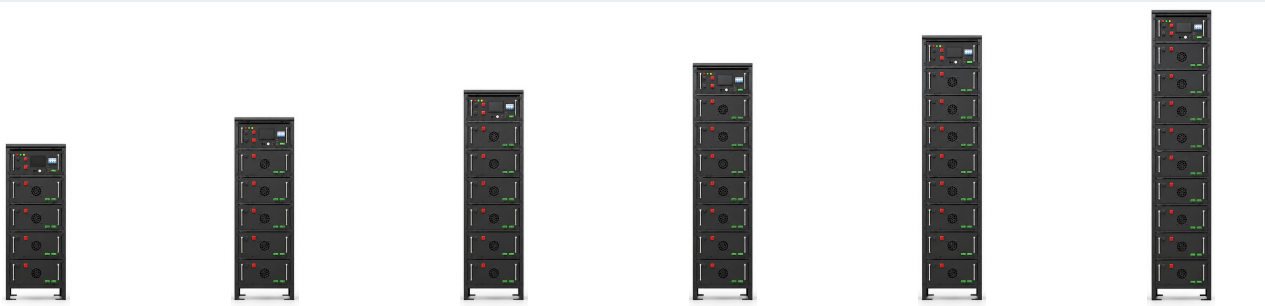


Modular high-voltage rack system

MODEL	RV-RH-20	RV-RH-25	RV-RH-30	RV-RH-35	RV-RH-40	RV-RH-46
Electrical Characteristics						
System Energy (kWh)	20.48	25.6	30.72	35.84	40.96	46.08
System Nominal Voltage (V)	204.8	256	307.2	358.4	409.6	460.8
System Operating Voltage (V)	172.8-224	215-280	259.2-336	302.4-392	345.6-448	388.8-504
Cell Configuration	64S1P	80S1P	96S1P	112S1P	128S1P	144S1P
Cell Chemistry	LiFePO4 (LFP)					
Cell Nominal Rating	3.2 V / 100 Ah					
Module Energy (kWh)	5.12					
Module Nominal Voltage (V)	51.2					
Module Capacity (Ah)	100					
Recommended Depth of Discharge	90%					
Charge / Discharge & Cycle Life						
Recommended Charge / Discharge (A)	50					
Max. Charge / Discharge (A)	100					
Cycle Life*	≥6000 cycles					
Operating Environment						
Charge Temperature	0°C to 55°C					
Discharge Temperature	-20°C to 55°C					
Storage Temperature	0°C to 35°C					
Relative Humidity	5-85% RH					
Altitude	≤2000 m					
IP Rating	IP20					
Mechanical & Communication						
Dimensions W x D x H (mm)	538 x 492 x 791	538 x 492 x 941	538 x 492 x 1091	538 x 492 x 1241	538 x 492 x 1391	538 x 492 x 1541
Approx. Weight (kg)	195	240	285	330	375	420
Installation Method	Rack mounting					
Communication Port	CAN 2.0 / RS485 / WiFi					

* Cycle life tested at 25±2°C, 0.5C charge / discharge, EOL 70%.

RACK CONFIGURATIONS



RV-RH-20
20.48 kWh / 4 modules

RV-RH-25
25.6 kWh / 5 modules

RV-RH-30
30.72 kWh / 6 modules

RV-RH-35
35.84 kWh / 7 modules

RV-RH-40
40.96 kWh / 8 modules

RV-RH-46
46.08 kWh / 9 modules