

# High-Voltage Battery

IEC CE UN38.3

## Product Feature >>



### High Quality Battery Cell

Long cycle life: More than 8000 cycles

@ 80% DOD:

Passed International Certifications:

IEC62619,UL1973,UN38.3,CE

Meet the most stringent cell intrinsic safety requirements.



### Integrated Production

More than 20 complete control processes

More than 100 MES data points

More than 500 quality control points

All data upload to the cloud for long-term traceability.



### Modular Design

Avoid short circuit, flexible buffering between cells, overall elastic restraint to reduce the influence of cell expansion; Air duct between cells effectively control heat accumulation & avoid thermal runaway.



### Rigorous Tests

Passed 28 safety & reliability tests, 500 performance testing



### Thermal Management System

Perfect thermal management technology through simulation and actual testing, to control the temperature rise in the battery system to <5°C



### Operation Guarantee

Two-stage battery safety management system

Full coverage of key sampling points to build a complete IoT

Real-time monitoring feedback, fault diagnosis and warnings

Triple protection, blocking risk spread

## Product Data Sheet >>

Models	iRack-HVS 25	iRack-HVS 40	iRack-HVS 60
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Cell Type	LFP	LFP	LFP
Total Energy	25.6kWh	40.96kWh	61.44kWh
Number of Modules	5	8	12
Configuration	1P80S	1P128S	1P192S
Nominal Capacity	100Ah	100Ah	100Ah
Nominal Voltage	256V	409.6V	614.4V
Operating Voltage Range	224Vdc-288Vdc	358.4Vdc-460.8Vdc	537.6Vdc-691.2Vdc
Battery Max Continuous Charge/Discharge Power	12.8kW	20.48kW	30.72kW
Dimension [W x D x H]	540*640*1060mm	570*615*1575mm	570*615*2145mm
Net Weight	277kg	392kg	564kg
Max. Charge Current		50A	
Max. Discharge Current		50A	
Communication		CAN,RS485	
Enclosure Protection Rating		IP20	
Altitude		≤2000m	
Installation		Indoor	
Charging Temp Range		0°C-55°C	
Discharging Temp Range		-10°C-55°C	
Working Humidity		5%-95%	
Cycle Life		≥8.000 Cycle@ 80% DOD/25°C/0.5C,60%EOL	
Communicated Inverter		Deye / MEGAREVO / GOODWE / ATESS / SINEXCEL	
Certification		IEC62619,UL1973,UN38.3,CE	