

Energy Rack™



The ideal building block
for energy infrastructure.

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Threat of fire from thermal runaway

3/30/30,000

The Energy Rack's AMCs can be cycled up to three times a day for a 30-year design life thanks to its expected 30,000 cycle lif

PRELIMINARY

Energy infrastructure is deployed on 20- and 30-year timelines. The Energy Rack is the DC block solution designed to match.

- No augmentation requirements
- No need for auxiliary heating and cooling or additional fire suppression systems
- More throughput over time

The Energy Rack™ is a plug-and-play, configurable, 150 kWh unit at 1500 Vdc. The DC block ships pre-integrated with Aqueous Metal Cells, a Battery Management System, and all connections and wiring. It deploys in indoor structures or outdoor-rated enclosures. The Energy Rack can be flexibly deployed. It is stackable up to three rows high for maximum density. The Energy Rack is the right choice for projects that require a flexible, scalable configuration.

BORN TO EMPOWER.
BUILT TO ENDURE.

DESCRIPTION	SPECIFICATION
Dimension (W*D*H)	1,456 x 2,190 x 2,466 mm
Weight	5,000 kg ± 3%
Rated Energy	150 kWh
Nominal Voltage	1,190 Vdc
System Voltage	1,075 – 1,500 Vdc
Maximum Charge/Discharge Rate	0.55C
Operating Temperature	-10 to 45 °C
Storage Temperature	-15 to 55 °C
Auxiliary Input Voltage	200-240 Vac, 50/60 Hz
Maximum Auxiliary Load	1,300 W
IP Ratings	Energy Rack: IP20, RSIIIC: IP54
Altitude	≤2,000 m
Seismic Rating	The seismic design intensity is ≥ 8 according to GB 50011 (SDS ≥ 0.24 g, SD1 ≥ 0.16g according to ASCE 7)
Cooling Type	Forced Air
Chemistry	Aqueous Metal (Ni-H2)
Certifications *	UL 9540, UL 9540A, UL 1973, IEC 62933-5-2, IEC 63115-2, IEC 61000-6-2/4, IEC 62477-1
Expected Capacity Retention	>80% after 30,000 cycles
Cycles/day	Up to 3 cycles
Communication Protocol	Modbus TCP/IP

*Some certifications pending. Consult with EnerVenue technical authority for current certifications.



Single Energy Rack



Excellent scalability with stacking up to three rows high.

All product claims and technical data are subject to change at any time without notice. The customer is responsible for verifying all applicable information at the time an order is placed. All information represented is believed to be accurate, but it is presented without guarantee, warranty, or responsibility of any kind, expressed or implied.

CONTACT INFORMATION