

Energy Core

Compact, naturally cooled energy storage for indoor applications.



3 / 30 / 30,000

The Energy Core's AMCs are engineered to deliver up to 3 cycles per day over a 30-year design life, equivalent to approximately 30,000 cycles in normal running conditions.

ZERO RISK OF FIRE FROM THERMAL RUNAWAY

EnerVenue's Aqueous Metal Cell (AMC) chemistry uses a water-based electrolyte and therefore, under abnormal operating conditions, the cell's integrated pressure-relief mechanism safely releases water vapor, leaving zero risk for fire ignition and propagation.

BUILT FOR INFRASTRUCTURE TIMELINES

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

- Reduced augmentation risk
- Natural air cooling - no auxiliary heating, cooling, or additional fire suppression systems
- Higher throughput over lifetime with 30,000 cycles

COMPACT DC BLOCK

The Energy Core is a backup power solution for the telecom sector, specifically for use in indoor areas. The Core protects critical infrastructure from power loss.

The AMC technology allows siting near telecoms infrastructure and equipment due to the zero risk of fire from thermal runaway. This EnerVenue solution replaces lead-acid batteries in the most efficient and effective way. No cooling requirements resulting in zero auxiliary consumption.



SPECIFICATIONS

DESCRIPTION	SPECIFICATION
Dimension (W × D × H)	550 x 2360 x 1400 mm
Total Designed Weight	1,000 kg ± 5%
System Voltage Range	43V - 58V
Working Altitude	≤ 2000 m
Rated Voltage	48V DC
Protection Class	IP20
Rate	C/24 ~ 1.4C
Rated Capacity	30 kWh
Cooling Method	Natural Air cooling
Working Humidity	≤ 95%
Battery Topology	2S5P
Communication Method	TCP/Modbus
Temperature	-10°C ~ +45°C ; max. temp up to 60°C
BMS	Integrated
Certifications (Cell)	UL 9540A, UL 1973, IEC 63115-2