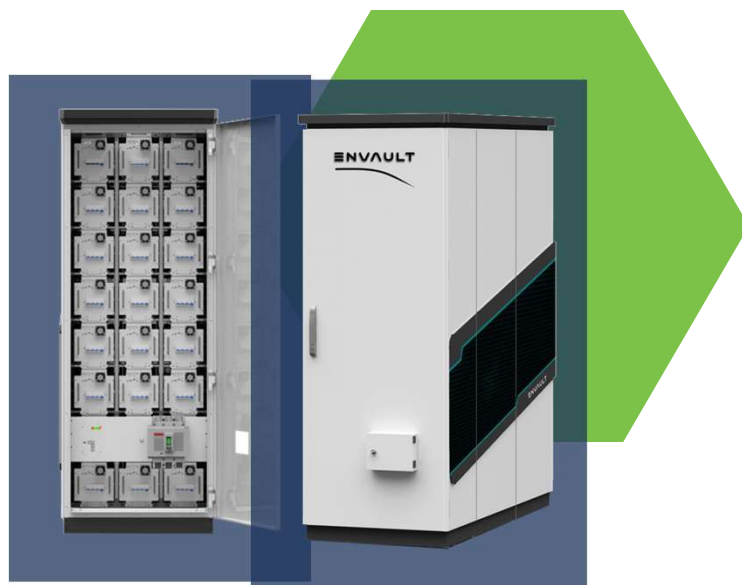


TECHNICAL DATA SHEET

ENVAULT

345kWh and 437kWh 1150Vdc
Scalable to 5.2MWh per skid



Plug and play commissioning in a matter of hours, not days

High-Density, Utility-Scale Building Blocks

Designed for large commercial, industrial, and utility applications, ENVAULT delivers scalable storage in a compact, modular cabinet. Each cabinet offers non-flammable, zero-propagation solid-state technology with no cooling requirements, simplifying installation and lowering lifetime costs. ENVAULT is engineered for resilience, enabling seamless integration with solar, wind, or grid assets. With a 1C charge/discharge rate and ability to cycle multiple times daily, ENVAULT enables maximum value from energy arbitrage, frequency response, and grid services—delivering a faster return on investment.

Depth of Discharge

100%

Round Trip Efficiency

~99.1%

Cycle Life

500,000 Cell Cycles
Up to 4x per day

Degradation

≥95% capacity at EOL

Integration

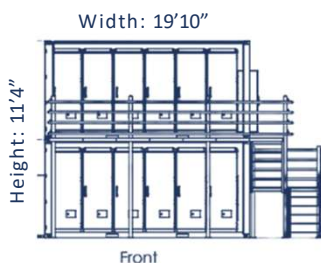
Grid
Genset
Renewable

Inverter

ENSERVER or inverter of choice

Safety

No thermal runaway
Zero propagation



APPLICATIONS



Data Centers



Emergency Backup



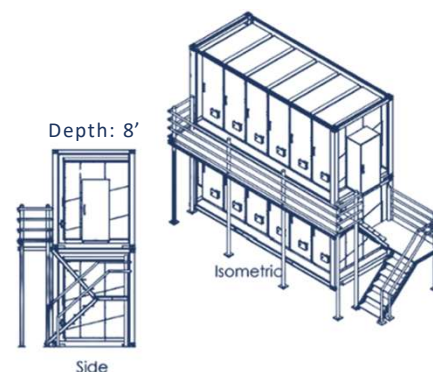
Utilities



Peak Shaving

Design

Modular cabinet, skid-mountable
and stackable with platform



AC2DC STORAGE
Electrostatic Supercapacitors

LEADING THE CHARGE IN ENERGY
STORAGE SOLUTIONS

SPECIFICATIONS	345KWH 1150VDC	437KWH 1150VDC
DC Energy	345kWh	437kWh
Voltage Range	1104Vdc to 1242Vdc	1104Vdc to 1242Vdc
DC Voltage (Nominal)	1150Vdc	1150Vdc
Charge Characteristics		
Maximum Continuous Charge Current	300A (~1C)	365A (~1C)
Charging Method	CC/CP/VP	CC/CP/VP
Discharge Specifications		
Maximum Continuous Discharge Current	300A (~1C)	365A (~1C)
Discharging Method	CC/CP/VP	CC/CP/VP
EN-CONNECT Software		
Module Monitoring	Total voltage, individual cell voltages, current, temperatures, COC, and energy consumed	
Module Environmental Specifications		
Operating Temperature Range	-22°F to +140°F (-30°C to +60°C)	
Operating Humidity	Non-condensing	
Smart Features		
Communication	CANBUS WiFi Enabled	CANBUS UART
Alarm	Audible alarms in the event of over/under voltage, over current, and over temperature	
Safety Performance		
Module Level Protection via Encontroller	Over temperature protection, over current protection, over/under voltage protection, and cell low/high protection via Encontroller	
	Short circuit current protection	
String Level Protection	Over temperature protection, over/under voltage protection, over current protection, short circuit current protection	

CONTAINER SKID



ENVAULT Racks and Module



Contactor Box



Subcontroller



Monitoring Rack & Distribution Panel



Industrial WiFi Router



ENCONTROLLER



ENMASTER



ENSERVEN for Auxilliary Power



ENSIRIUS for Auxilliary



AC2DC STORAGE
Electrostatic Supercapacitors

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