



BATTERY ENERGY STORAGE SYSTEM



TABLE OF CONTENTS

01	About Evault	03
02	Technology & Manufacturing	04
03	Product Overview	07
04	Core 261	08
05	Core 418	10
06	Titan 5000	12
07	Service & After Sales	14
08	The Founders	16

“

**For decades,
electricity was
an expense.
The future
will treat it
as an asset.**

-- *Evault*

”



evault

ABOUT EVAULT

Enerveda Vault is an Indian manufacturer of utility-scale Battery Energy Storage Systems (BESS), built to meet the evolving demands of India's power infrastructure. From our advanced manufacturing facility in Gujarat, we design and assemble liquid-cooled, containerized LFP battery systems in 5 MWh and 6.25 MWh DC block configurations.

Every system is engineered, tested, and certified by India's leading engineering talent to deliver reliable, safe, and scalable energy storage for commercial, industrial, utility, and renewable energy applications across India and global markets.

**Built on engineering excellence,
backed by measurable capabilities.**

1,00,000 sq ft

Manufacturing facility Bavla, Gujarat

5 GWh

Annual production capacity

50 units/month

Assembly, integration and testing

8,000+ cycles

Design life across all products

Every Unit. Tested. Logged. Proven.

Six facts about how we build.



01 Four-level traceability

Every cell is validated and logged across four stages—cell, module, pack, and final BESS factory acceptance test. No unit moves forward without verification.



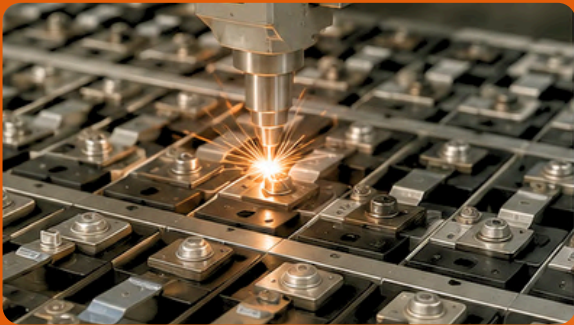
02 Full-power tested Every one

Every container goes through a complete charge-discharge cycle at rated power before dispatch.



04 Forward-compatible to 628 Ah cells

Our production line is engineered to adopt next-generation large-format cells without re-tooling. Built for the decade ahead, not locked to today's cell formats.



03 Laser-welded cell joints

Precision IPG fibre laser welding delivers consistent, low-resistance joints across every cell interconnection built to aerospace-grade standards.



05 Rain-tested at rated IP class

Every container is validated against water ingress before it ships out of the factory. It is designed and tested as per IP55 rating.



06 Certification-led manufacturing

All products are IEC and UL certified following the highest standards of safety and performance.

We power our own factory with our own batteries.

If it **runs our Factory**, it is ready to **run yours**.



What We Build

Two systems. One engineering standard.



TITAN

Grid-scale energy storage
for utility infrastructure.

* **TITAN - 5 MWh DC Block**

*For the infrastructure that holds
the country together.*

Grid operator

State DISCOMs

SECI

Renewable integration

CORE

Liquid-cooled energy storage for
commercial and industrial operations.

For businesses where power is not a utility.
It is an operating condition.

* **CORE 261 - 261 kWh / 125 kW**

* **CORE 418 - 418 kWh / 125 kW**

Data centres

Manufacturing

Pharma

IT parks

Hospitals



*Downtime ends. Diesel exits.
Your data, your power.*

261 kWh / 125 kW

CORE



Liquid-Cooled Energy Storage System

Reliable power for businesses that run around the clock. Liquid-cooled thermal management keeps cell temperature consistent within ± 2.5 degC across every cycle - eliminating the hot spots that accelerate degradation in air-cooled systems, extending cycle life, and removing the thermal runaway risk that air cooling cannot fully contain. Modular, expandable, and remotely monitored. A plant that installs CORE 261 today can expand capacity without replacing the system it already owns

DC Side	Cell Type	LFP / 314 Ah
	Pack Configuration	52.2 kWh / 1P52S
	System Configuration	261 kWh / 1P260S
	Rated DC Voltage	832 V
	DC Voltage Range	728 - 936 V
	Max. Charge/Discharge Rate	0.5 P
	Max. Depth of Discharge	100% (25 ± 2°C)
AC Side	Rated Output Power	125 kW
	Rated AC Voltage	400 V
	AC Voltage Range	±15%
	Grid Type	3W+N+PE
	Rated Frequency	50 Hz / 60 Hz
	Power Factor	0.99 / -1+1
	THDi	≤ 3%
General	DC Ratio	< 0.5% I _{pn}
	Max. Round Trip Efficiency	89 %
	Cycle Life	≥ 8,000 cycles
	Communication	Modbus TCP/IP
	Fire Suppression System	Aerosol
	Ingress Rating	IP55
	Cooling	Liquid cooling + Forced air cooling
	Operating Temperature	-25°C -55°C (Derating after 45°C)
	Anticorrosion Rating	C4 (C5 optional)
	Humidity	0 - 95% RH (non-condensing)
	Noise	≤ 75 dB
	Altitude	3000m (Derating above 2000m)
	Dimensions (W*D*H)	1,050 * 1,350 * 2,400 mm
	Weight	2,600 kg

418 kWh / 125 kW

CORE



Liquid-Cooled Energy Storage System

Higher capacity on the same engineering platform. Designed for larger commercial and industrial loads - data centres running at scale, manufacturing plants with continuous shift operations, hospital campuses where stored energy is also emergency infrastructure. At this capacity, the financial case is direct: the stored energy pays for the system within a predictable number of billing cycles. The decision is not whether to invest. It is when.

Specification	Cell Type	LFP / 314 Ah
	Pack Configuration	52.248 kWh / 1P52S
	System Configuration	418 kWh / 1P416S
	Rated DC Voltage	1331.2 V
	DC Voltage Range	1164.8 - 1497.6 V
	Max. Charge/Discharge Rate	0.5 P
	Max. Depth of Discharge	100% (25 = 2°C)
	Cycle Life	≥ 8,000 cycles
	Communication	Modbus TCP/IP
	Fire Suppression System	Aerosol
	Ingress Rating	IP55
	Cooling	Liquid cooling+Forced air cooling
	Operating Temperature	-25°C - 55°C (Derating after 45°C)
	Anticorrosion Rating	C4 (C5 optional)
	Humidity	0 - 95% RH (non-condensing)
	Altitude	4000 m
	Dimensions (W*D*H)	1,350*1,350*2,400 mm
	Weight	3.700 kg

5 MWh DC Block

TITAN



Grid-Scale Energy Storage

Built for the infrastructure that holds the country together. SECI tenders. State DISCOM stabilisation. Renewable integration at a scale where performance is measured in years, not months, and where a system failure is not an operational inconvenience - it is a grid event. Every TITAN deployment carries the same promise as every CORE: 72-hour module replacement, anywhere in India, for 10 years, with no fine print. At grid scale, that level of commitment is not standard in this market.

At EVault, it is the minimum.

High Safety - Multi-layer fire protection

PACK-level and cabin-level gas fire suppression, cabin-level water extinguishing, and aerosol fire suppression for electrical cabinets. Not one system. Three.

Easy O&M - Front-access design

Front-access maintenance, quick module replacement, intelligent control management. Reduced operational costs over the 10-year service life - because the total cost of ownership matters more than the purchase price.

High Energy Density

Compact 20-foot container design with precise liquid cooling for long life. 5 MWh in a standard footprint - deployable at DISCOM substations without additional civil works.

High Intelligence - Integrated BMS/PCS/EMS

Integrated BMS, PCS, and EMS data supporting real-time failure diagnosis and prediction. The system knows before the operator knows.

Battery System	Cell type	LFP 3.2V / 314 Ah
	Battery capacity	5 MWh DC Block
	Rated Voltage	1,331.2 V
	C-Rate	<= 0.5P
	Discharge Efficiency	94%
	DoD	90% (adjustable 0-100%)
	Cycle Life	>= 8,000 cycles
Protection & Environment	IP Rating	IP55 (Pack IP67)
	Operating Temperature Range	Charge: 0 deg C to 55 deg C Discharge: -20 deg C to 55 deg C
	Fire Protection System	Fire aerosol + water spray (pack and container-level)
	Cooling Method	Intelligent liquid cooling
	Altitude	3,000 m (derating above 2,000 m)
Communication & Compliance	Communication Protocols	CAN / RS485 / LAN
	Compliance	IEC 62933-5-1, IEC 62933-5-2, UL 9540A, IEC 62619
	Weight	~ 43 T
	Dimensions	6,058 x 2,438 x 2,896 mm (20-ft container)

Always Watching.
Always Ready.



Year 1

Commissioning support.
System optimisation.
Remote monitoring
activated. First quarterly
performance report.

Year 3

Data-informed preventive
maintenance. Cell health
assessment. Performance
review against guarantee
thresholds.

Year 10

Full system audit. Upgrade
assessment. End-of-
warranty performance
certification. Renewal or
successor system
planning.



Predictive Monitoring

Our Energy Management System identifies a pack issue before it becomes a fault. Remote diagnostics, every unit, every day. The customer and our service team see the same data in real time - so there are no surprises on either side of the call.



72-Hour Promise

Module replacement anywhere in India within 72 hours. For 10 years. No fine print, no exclusions, no small-type carve-outs. This is a contractual commitment written into the purchase agreement - not a marketing claim that disappears at the first service event.



Long-Term Service Coverage

10-year service coverage for systems within scope. Scheduled maintenance informed by data, not guesswork. Our EMS platform provides continuous visibility from day one - so year-5 maintenance is as informed as the initial installation.



Performance Guarantee

We guarantee system availability and round-trip efficiency over the contractual period. If the system underperforms against the agreed threshold, we remedy it. The guarantee has teeth because we own the system's performance, not just its hardware.

The People Behind EVault

Energy storage built by people
who understand what it costs to need it.

Aditya Patoliya

Co-founder

Aditya brings a decade in energy, five years at IIT Bombay, where he earned a B.Tech and M.Tech in Energy Science and Engineering with a specialisation in electrochemistry, energy systems and power electronics, and five years across leading renewable energy organisations including ArcelorMittal and JSW Energy. That path has given him depth on both sides of the business. Technically, he understands BESS from the cells including chemistry and degradation behaviour, system architecture, power conversion, thermal and safety design enough to engineer a product from first principles. Commercially, he understands the Indian market, knowing how utility and government tenders are structured, how qualification and evaluation criteria actually work, and how bids are won, having sat on the buying side of BESS procurement himself and seen how these systems are judged before they are bought. At EVault, he leads technology and engineering.

Sameep Agarwal

Co-founder

Sameep comes from one of Ahmedabad's most established textile trading families, with a business legacy spanning over three decades and a group turnover exceeding ₹585 crore. He spent six years working in his textile manufacturing business, running the full arc from procurement through production to sales giving him a hands-on experience in how supply chains, factory floors and customer orders actually connect. At EVault he leads sales and procurement. On the commercial front, he owns customer relationships end to end building the long-term trust that industrial buying decisions rest on. On the sourcing side, he manages the vendor and supplier base, negotiating terms, securing supply continuity and holding the line on input costs

Chaitanya Tulsyan

Co-founder

Chaitanya brings together international exposure, consumer-market instinct, and distribution depth at scale. He studied management at Boston University, and his years in the US shaped how he approaches international markets, partnerships, and capital, the perspective he now brings to EVault's overseas business. He went on to found SuprWater, a D2C consumer health brand, building a company from zero and developing a working understanding of demand creation and customer behaviour. At EVault, he leads finance, overseas markets, and management.

India's industries, data centres, and utilities are paying for power they do not own. Every unit of electricity is rented — from the grid, from the DISCOM, from a diesel generator that burns money every hour it runs.

EVault builds the systems that change that equation. LFP battery storage, made in India, engineered to last decades, and backed by a 10-year service commitment with no fine print.

We started here because we believe Indian manufacturing can meet world-class standards. Every container that leaves Bavla proves it.

Founding Team, EVault



Evault Energy Storage Systems
Bavla, Ahmedabad, Gujarat, India

www.enervedavault.com
info@enervedavault.com
+91 6354 095 935