TeraStor
Smart. Safe. Secure.

MISSION CRITICAL ENERGY STORAGE

WWW.TERASTORENERGY.COM | INFO@TERASTORENERGY.COM

ENGINEERED FOR ENVIRONMENTS WHERE
FAILURE IS NOT AN OPTION.
FULL-STACK CONTROLLED. AI-ENABLED.
AMERICAN-ENGINEERED.

SMART

The most advanced BMS and EMS platform available, 99% SOH, SOC, SOB accuracy guaranteed

SAFE

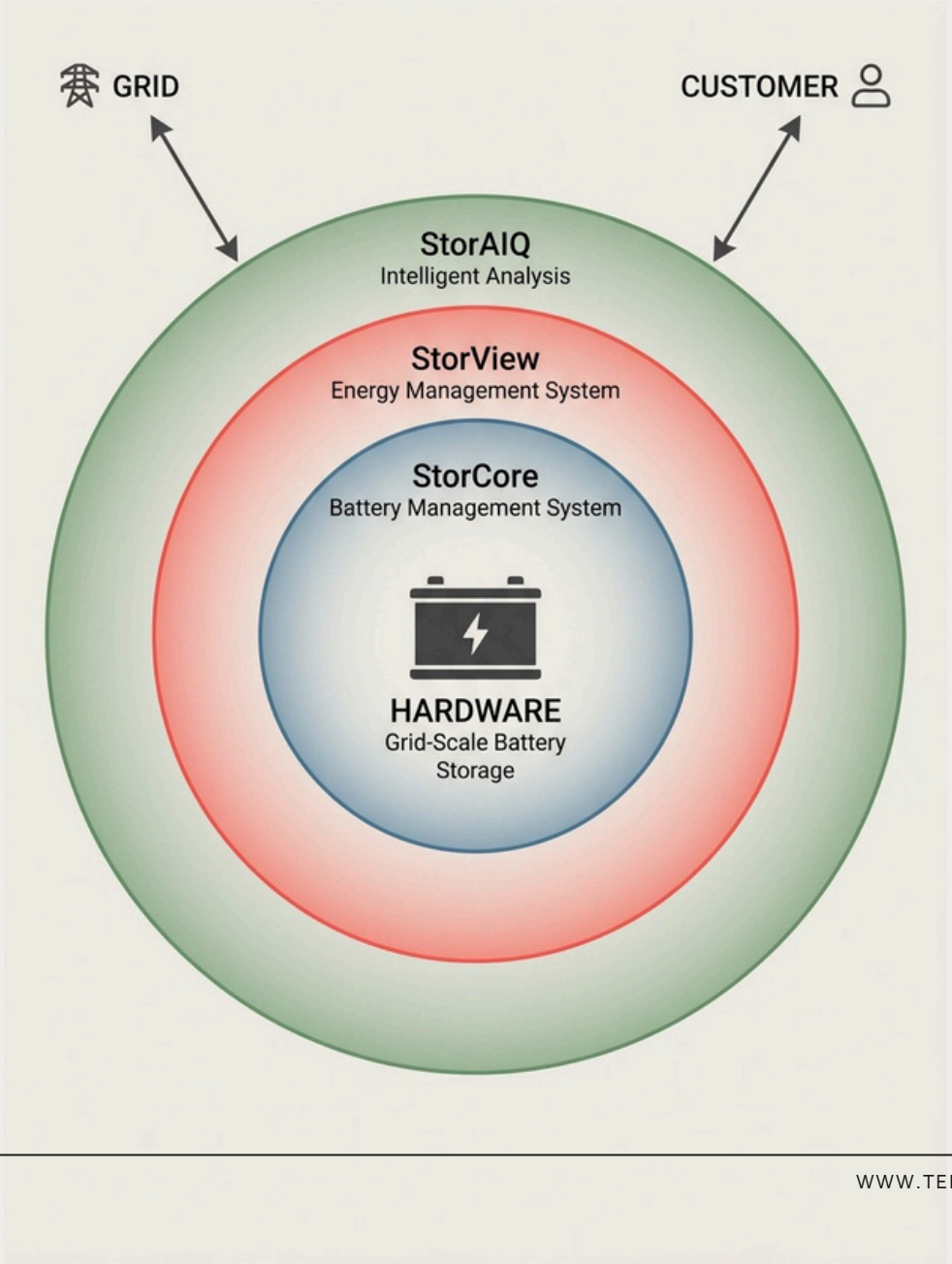
Thermal runaway limited at the individual cell level during abusive UL 9540A system testing enabling stringent NFPA 855 compliance

SECURE

We are a certified American-headquartered company that meets all FEOC ownership requirements. Designed in the USA, our control platform delivers industry-leading cybersecurity performance and exceeds rigorous standards, including IEC 62443, IEC 62443-4-1, and NERC CIP compliance.

INTELLIGENT ESS FOR SAFE AND MISSION-CRITICAL INFRASTRUCTURE

Designed and validated to exceed industry safety standards, **TeraStor**'s products are built as a fully integrated hardware, firmware, and software platforms; ready to perform.



ARCHITECTURE. CONTROL. INTELLIGENCE.

TeraStor is a control-first energy platform engineered for environments where reliability is non-negotiable.

Each system integrates:

- **TeraStor P** and **TeraStor S** hardware architectures
- **StorCore™** deterministic battery intelligence
- **StorView™** secure orchestration
- **StorAIQ™** domain-specialized AI

Where conventional BESS systems optimize for capacity, TeraStor optimizes for architectural resilience.

TWO ARCHITECTURES, ONE GOAL

We offer more than just "the best". We deliver the flexibility and engineering innovation that set new standards in energy storage.

PRODUCT LINE S

(Series-before-Parallel)

Best for: Commercial, C&I, campuses, microgrids

- ✓ Lower upfront cost with right-sized building blocks
- ✓ N+1 redundancy for small to medium sites
- ✓ AC-integrated all-in-one form factors

S200 · S450 · S700 · S900 · S4000

PRODUCT LINE P

(Parallel-before-Series)

Best for: Data centers, grid-scale, mission-critical

- ✓ Mission-critical reliability — multiple redundancy layers
- ✓ Zero downtime from balancing or component failures
- ✓ Guaranteed throughput with max capacity utilization

P7000 · 7 MWh · On-site in < 6 hrs

BOTH PRODUCT LINES OFFER:

Performance optimization
with software-driven analytics, diagnostics, and performance management

BESS PRODUCTS

S200

This all-in-one cabinet offers high performance in a small space. It is fully equipped with LFP battery modules, DC/AC inverter, direct PV DC connection, liquid cooling, and a multi-level battery management system.

S900 | S700 | S450

This efficient industrial storage container is fully equipped with LFP battery modules, DC/AC inverter, liquid cooling, multi-level battery management system and backup power switch for grid outages.

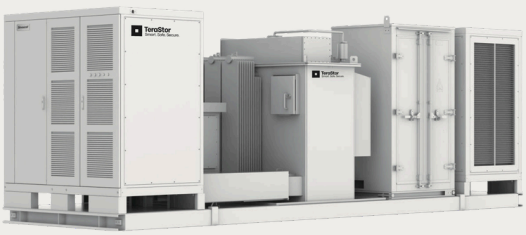
S4000

This system incorporates multiple innovative technological architectures, including a 690V low-voltage grid connection solution and an integrated DC + Skid system, delivering an adaptable, modular design to meet a wide range of scenario-based demands.

P7000

Energy-dense TeraStor unit arrives on-site and is ready for commissioning in less than 6 hours. TeraStor's unique architecture significantly reduces the number of parts and potential points of failure compared to any other solution on the market

AC-DC BLOC



A factory-integrated inverter and medium-voltage transformer skid with a nominal 2.6 MVA output, designed for seamless integration with the S4000 battery energy storage system.

S200

Commercial & light industrial self-consumption, and backup power

- 221.35 kWh outdoor-rated cabinet storage system
- All-in-one solution including direct solar electricity storage
- Automatic backup power for grid outages

Product	S200
Nominal Capacity	233 kWh
Usable Capacity (95% DoD)	221.35 kWh
Rated AC Power	125 kW
Output AC Voltage	480 VAC
PV Input Voltage	200-950 VDC
Dimensions (WxDxH)	5.2′ x 4.3′ x 7.2′ ft
Weight	7,300 lbs
Environmental protection	IP54
Cooling	Liquid
Cell Chemistry	LFP
Certifications & Standards	UL 9540, UL 1973, UL 9540A, UN 38.3, NFPA 69, NFPA 855
Warranty	10 yrs

PV-module connection

increase self-sufficiency

manage energy sources

store and trade energy

S900 | S700 | S450

Commercial campuses, microgrids, and industrial load smoothing

- 442-885 kWh outdoor-rated container storage system
- AC integrated system
- Automatic backup power for grid outages

Product	S900	S700	S450
AC Integrated	Yes	Yes	Yes
Nominal Capacity	932 kWh	699 kWh	466 kWh
Usable Capacity (95% DoD)	885 kWh	664 kWh	442 kWh
Rated AC Power	500 kW	375 kW	250 kW
Output AC Voltage	480 VAC	480 VAC	480 VAC
Dimensions (WxDxH)	9.8' x 8.0' x 8.5 ft		
Weight	25,350 lbs	21,160 lbs	17,200 lbs
Environmental protection	IP54		
Cooling	Liquid		
Cell Chemistry	LFP		
Certifications & Standards	UL 9540, UL 1973, UL 9540A, UN 38.3, NFPA 69, NFPA 855		
Warranty	10 yrs		

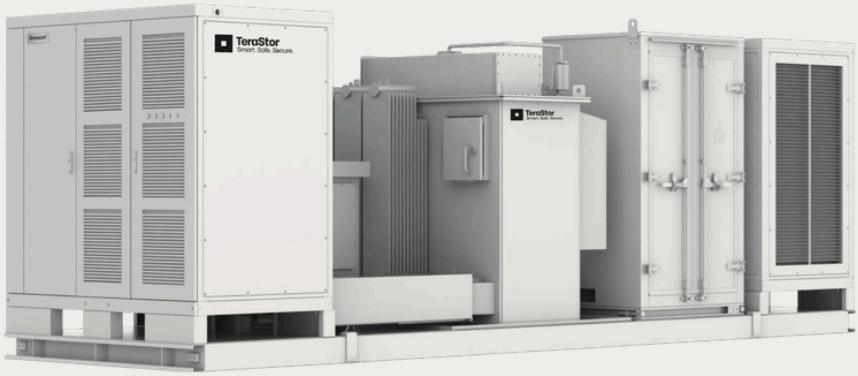
S4000

Utility-scale projects and large commercial infrastructure

- A robust, outdoor 4 MWh containerized ESS
- Compatible with a wide range of inverters
- Offers flexible grid integration

Product	S4000
Dischargeable Energy	4.07 MWh
Rated DC Power	2 MW
Output Voltage Range	1,164-1,498 VDC
Auxiliary Power	30 kW max
Auxiliary Input Voltage	480V 3P
Dimensions (WxDxH)	19.9' x 8.0' x 9.5' ft
Weight	83,775 lbs
Environmental protection	IP55
Cooling	Liquid
Cell Chemistry	LFP
Operating Temperature Range	-30 to 50 °C
Certifications & Standards	UL 9540, UL 1973, UL 9540A, UN 38.3, NFPA 69, NFPA 855
Warranty	5 yrs Std - 20 yrs Ext.

AC-DC BLOC



Purpose-built for simplified grid interconnection and rapid deployment of utility-scale BESS systems

MV TRANSFORMER AND RMU DATA			
Nominal AC power	2,580 kVA @ 45 °C		
Transformer Vector	Oil-cooled transformer		
Transformer protection	Protection relay for pressure, temperature (2 levels) and gas		
Oil retention tank	Galvanized steel. Integrated with hydrocarbon filter. Optional		
Switchgear configuration	DeV / CV (RMU)		
Switchgear protection	Circuit breaker (V)		
Switchgear short circuit rating	20 kA 1s (Consult with TeraStor for customized)		
Transformer winding type	Dy11y11 (Consult with TeraStor for customized)		
Overload capability	100%		
MV AC voltage	10 kV - 33 kV (Consult with TeraStor for other voltage level)		
LV AC voltage	690 V	LV-MV connections	Copper bar or cable
AC PF	0.99/-1-1	Cooling type	KNAN
AC frequency	50 Hz / 60 Hz	LV protection	Motorized CB in PCS
Insulation Level	A	THDi	≤3%
Transformer impedance	5.75% - 8%	MV protection	Microcomputer protection

PCS DATA	
Nominal AC power	1,075 kVA
AC connection	Three-phase three-wire (3P3W)
Overload Capability	1,183 kVA
AC voltage	690 (-15% - 10%) V
AC frequency	50/60 (-5-5) Hz
THDi	≤3%
AC PF	-1-1
Number of DC branch	1
Voltage regulation accuracy	≤±1%
Peak efficiency (with auxiliary source)	98.50%
Size (W×DxH)	7.2' × 4.3' × 7.1' ft
Weight	4,235 lbs
Protection	IP54
Operating temp.	-20°C to 50°C (De-rating over 45°C)
Cooling	Air cooling
SKID DATA	
Size (W×DxH)	24.9' × 7.2' × 8.5' ft
Weight	≤44,092 lbs
Enclosure	IP54
Corrosion Prevention	C4
Operating temp.	-20°C to 50°C (De-rating over 45°C)
Storage temp.	-50°C to 70°C
Cooling	Air cooling
Humidity	0–95% (No condensing)
Max elevation	Derating above 1000m/ 3300 ft (Consult with TeraStor for other elevation)
Certification	PCS, transformer, RMU certification based on project country

P7000

Mission-critical, high-density infrastructure where downtime is unacceptable

- Patented Parallel before Series Architecture
- No unit-level thermal runaway events with zero cell-to-cell propagation
- Designed for mission and safety-critical applications

Product	P7000
Dischargeable Energy	7 MWh
Rated DC Power	3.4 MW
Output Voltage Range	1,164-1,500 VDC
Auxiliary Power	30 kW max
Auxiliary Input Voltage	480V 3P
Dimensions (WxDxH)	27' x 12.5' x 8' ft
Weight (lbs)	*Ships in 4 separate "quarter blocks", each weighing less than 45,000 lbs.
Ingress protection	IP56
Cooling	Liquid
Cell Chemistry	LFP
Operating Temperature Range	-20 to 50 °C
Certifications & Standards	UL 9540, UL 1973, UL 9540A, UN 38.3, NFPA 69, NFPA 855
Warranty	5 yrs Std - 20 yrs Ext.

WHAT MAKES TERASTOR DIFFERENT?

MISSION-CRITICAL ARCHITECTURE

Parallel-before-Series (PBS) and Series-before-Parallel (SBP) designs are engineered for reliability and fault isolation.

FULL-STACK CONTROL

From individual cell to grid interface, TeraStor designs and controls the system architecture.

AI-ENABLED INTELLIGENCE

Predictive analytics, degradation modelling, and performance optimization embedded at the control layer.

AMERICAN-CONTROLLED PLATFORM

Designed and controlled in the United States. Structured to meet FEOC ownership requirements.

Deploy **TeraStor** when failure is not an option.

Contact us to discuss mission-critical energy architecture tailored to your infrastructure.

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