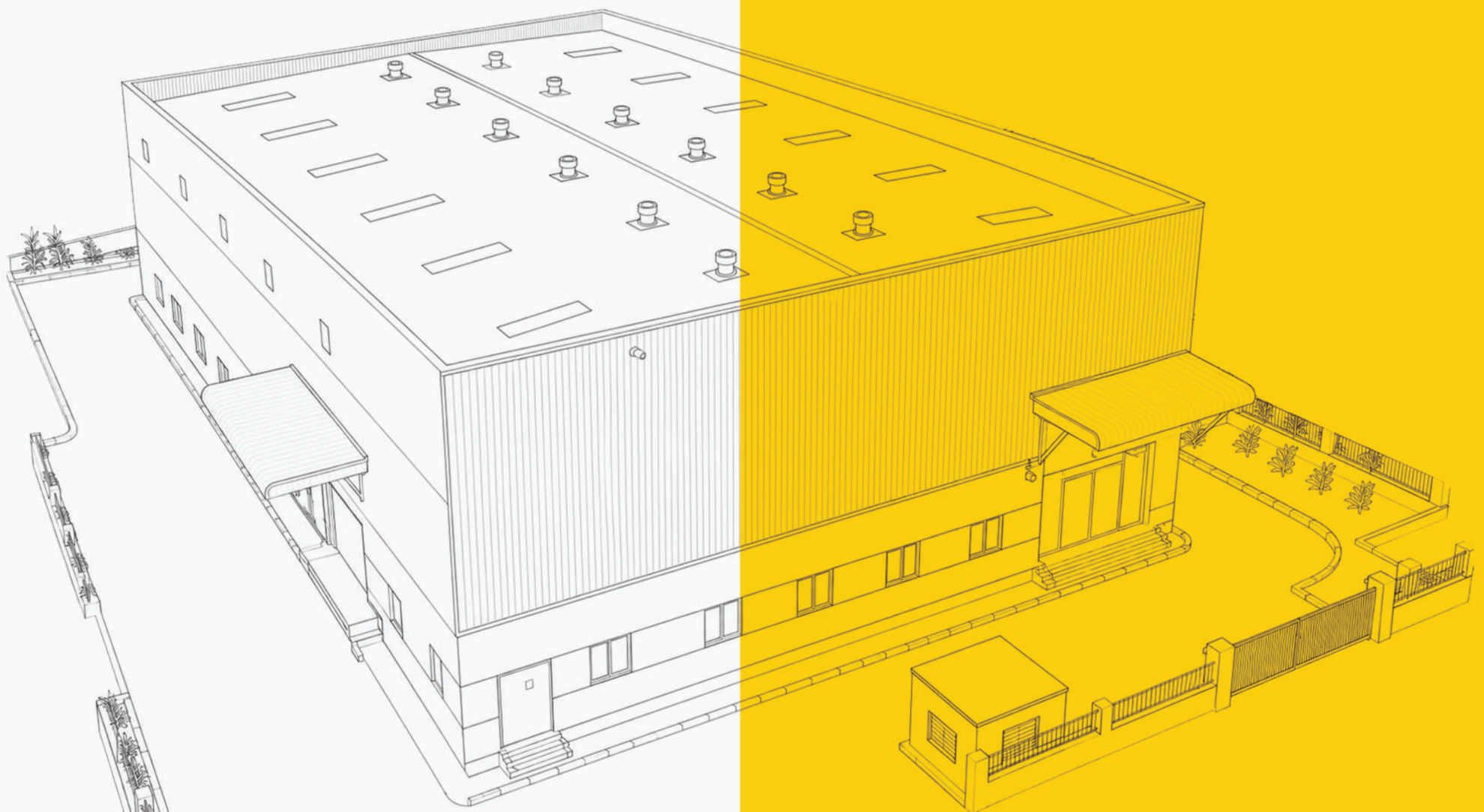
TREX GLOBAL ENERGY

ENERGY STORAGE SYSTEM
PRODUCTS AND SOLUTIONS

TREX GLOBAL ENERGY

GLOBAL BESS BATTERY MANUFACTURER

Energy Storage System Solutions and Products



Company Vision

Become a global leader in Battery Storage Solutions

Company Mission

Making clean energy safer, more stable and affordable

Revenue over 3 Billion rupees in 2026

100+ Employees

3GWh Energy Delivered

Offices across China, India, & Hong Kong

Trex is Empowering a sustainable future, our company envisions a world where clean energy is accessible to all. Through cutting-edge lithium energy storage solutions, we strive to revolutionize how homes, businesses, and communities harness renewable power. Our commitment lies in reliability, innovation, and environmental stewardship, as we pave the way toward a greener, more resilient planet.

COMPANY PROFILE

Trex Energy: Empowering Clean Energy Solutions

At Trex Energy, we're on a mission to revolutionize energy storage. Founded in 2021, we combine cutting-edge technology with affordability and scalability. Our commitment lies in creating flexible, reliable, and sustainable energy solutions for a cleaner future.

OUR EXPERTISE

Lithium-ion & Sodium-ion Batteries: We're at the forefront of battery innovation. Our research, design, and manufacturing capabilities ensure top-notch lithium-ion and sodium-ion batteries that power homes, businesses, and telecom networks.

Telecom Power Solutions: Trex Energy specializes in telecom power solutions. Whether it's optimizing network uptime, enhancing reliability, or reducing operational costs, our batteries play a crucial role in keeping communication networks running smoothly.

Battery Energy Storage System (BESS): Our advanced BESS solutions are built for smarter energy management-offering ultra-efficient storage, fast deployment, and seamless integration with solar, wind, and industrial grids. Trex Energy enables businesses to optimize power usage while ensuring uninterrupted, clean energy.

Clean Energy Ecosystem: We envision an ecosystem where India leads the fight against climate change. By fostering innovative energy storage solutions, we're committed to making this vision a reality.

COMPANY MILESTONES

2021
Company Establishment
Founded with a vision to deliver innovative and sustainable energy storage solutions.

2022
2022-23 | 30 MWh Energy Delivered

2023
2023-24 | 450 MWh Telecom battery Delivered

2024
2024-25 | 700 MWh Energy Delivered
Land allotment in MP for BESS Manufacturing

2025
2025-26 | 1.5 GWh Energy Delivered
Relocation of Hong Kong Corporate Office to Hyderabad, India

2026
Acquisition of Roshan Energy
Establishment of 5GWh Facility

GLOBAL PRESENCE



North America

USA — Sales & Service Network

Asia

Shenzhen — Office

Hongkong — Office

Philippines — Sales Network

India — Headquarters

Sales Network

Office

Myanmar — Sales Network

Thailand — Sales Network

Africa

Kenya — Sales Network

Nigeria — Sales Network

Australia

Office

INDIA: MANUFACTURING

QUALITY ASSURANCE

Quality Management System: ISO9001, ISO14001

Success comes from strict quality management and unwavering attention to detail. All manufacturing facilities have certification of ISO9001, ISO14001, guaranteeing a strict quality management system that adds customer value. All ESS batteries are certified.

Professional Team

Experts with over 20 years battery production experience to ensure the high quality of products.

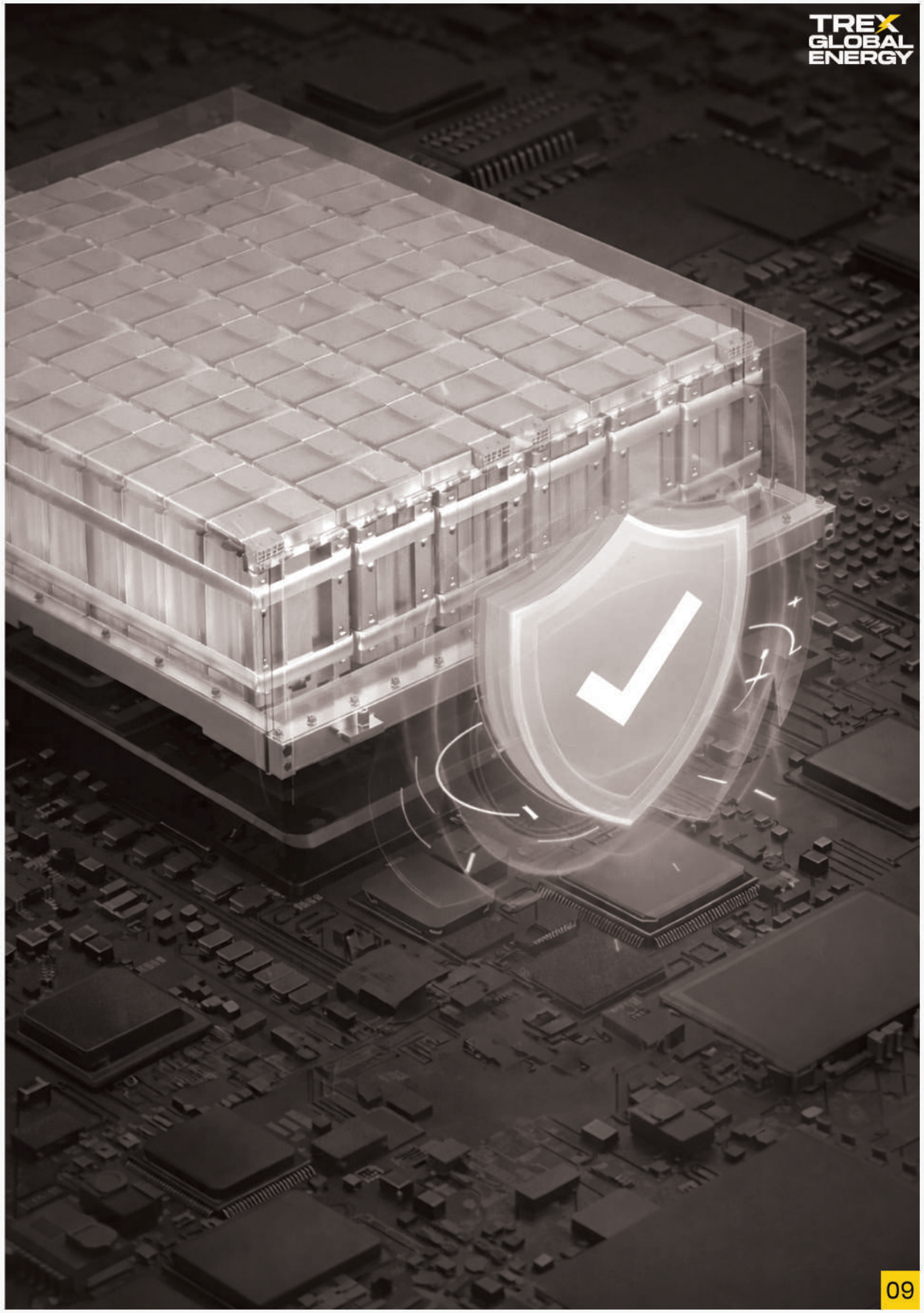
Full-process Inspection

Test: material+product+laboratory, Average cell testing items exceed 100

Worldwide Testing and Qualifications

62133-2 | UL1973 | UL9540A | UL1642

62619 | MSDS | UN38.3 | 62660



Battery Cell Distribution

Model Type	GSP3914895F
Application	ESS
Capacity	50Ah
Charging/Discharging Rate	0.5C/1C
Peak Discharge	3C (For Few Sec)
Cycle Life	>= 4000@80%
Chemistry	LFP
Size (WxLxH)mm	39 x 148 x 95
Weight (kg)	1.10+= 0.1
Cell Internal Impedance	<=0.6m Ω
Charging Temperature	0~60°C
Discharging Temperature	-30~55°C
Testing & Certifications	BIS/MSDS/UN38.3



Model Type	GSP34135214F
Application	ESS/EV
Capacity	100Ah
Charging/Discharging Rate	0.5C/1C
Peak Discharge	3C (For Few Sec)
Cycle Life	>= 4000@80%
Chemistry	LFP
Size (WxLxH)mm	34 x 135 x 214
Weight (kg)	2.04+= 0.05
Cell Internal Impedance	<=0.7m Ω
Charging Temperature	0~60°C
Discharging Temperature	-30~60°C
Testing & Certifications	BIS/MSDS/UN38.3



Model Type	GSP42173205F
Application	ESS
Capacity	150Ah
Charging/Discharging Rate	0.5C/1C
Peak Discharge	3C (For Few Sec)
Cycle Life	>= 2500@80%
Chemistry	LFP
Size (WxLxH)mm	42 x 173 x 205
Weight (kg)	<=3.28
Cell Internal Impedance	<=0.7m Ω
Charging Temperature	0~60°C
Discharging Temperature	-30~60°C
Testing & Certifications	BIS/MSDS/UN38.3



Battery Cell Distribution

Model Type	LF230
Application	EV
Capacity	230Ah
Charging/Discharging Rate	1C/1C
Peak Discharge	3C (For Few Sec)
Cycle Life	>= 4000@80%
Chemistry	LFP
Size (WxLxH)mm	53.85 x 174 x 207
Weight (kg)	4.14 += 0.124
Cell Internal Impedance	0.20 += 0.05m Ω
Charging Temperature	0~65°C
Discharging Temperature	-30~60°C
Testing & Certifications	BIS/MSDS/UN38.3



Model Type	GSP71173204F
Application	BESS
Capacity	314Ah
Charging/Discharging Rate	0.5C/1C
Peak Discharge	3C (For Few Sec)
Cycle Life	>= 8000@80%
Chemistry	LFP
Size (WxLxH)mm	71 x 173 x 204
Weight (kg)	5.6 += 0.15
Cell Internal Impedance	0.17 += 0.05m Ω
Charging Temperature	0~60°C
Discharging Temperature	-30~55°C
Testing & Certifications	BIS/MSDS/UN38.3



TREX GLOBAL ENERGY BATTERY

Trex Lithium Batteries deliver long-lasting performance, reliability, and high energy efficiency with advanced safety and premium-grade technology.
Rigorously tested for genuine quality standards, Trex provides dependable power solutions for residential, commercial, and industrial applications.

- Positive Tolerance of capacity
- Multiple selection of charging/discharging rate
- Long Cycle Life
- High Safety
- High Consistency

Products & Industry Applications

TREX BESS
Engineered for Performance. Built for Reliability. Designed for the Future.



Battery Pack

LiqPack-1P52S 314Ah

- Advanced Liquid Cooling Technology
- Flexible System Compatibility
- Cell-Level Thermal Isolation
- Precise Temperature Uniformity
- High-Temperature Resistant Enclosure
- Optimized Cooling Flow Design
- Certified Safety Compliance
- Rugged Protection Rating
- Globally Approved Standards

Product Type	LiqPack-314Ah 1P52S
Cell Capacity	314 Ah
Configuration	1P 52S
Charging/Discharging Rate	0.5 C
Cooling Method	Liquid cooling
Rated Capacity	314Ah@0.5C
Battery System Voltage	166.4 Vd.c.
Rated Energy	52.25 kWh
Protection Level	IP67
Dimensions	W786×D1141×H251.5 mm
Product Weight	≈360 kg
Maritime Standard	UN38.3
Applications	Container



Battery Pack

LiqPack-1P104S 314Ah

- Advanced Liquid Cooling Technology
- Flexible System Compatibility
- Cell-Level Thermal Isolation
- Precise Temperature Unifor
- mity
- High-Temperature Resistant Enclosure
- Optimized Cooling Flow Design
- Certified Safety Compliance
- Rugged Protection Rating

Product Type	LiqPack-314Ah 1P104S
Cell Capacity	314 Ah
Configuration	1P 104S
Charging/Discharging Rate	0.5 C
Cooling Method	Liquid cooling
Rated Capacity	314Ah@0.5C
Battery System Voltage	332.8 Vd.c.
Rated Energy	104.5 kWh
Protection Level	IP67
Dimensions	W790×L2187×H251.3 mm
Product Weight	≈700 Kg
Maritime Standard	UN38.3
Applications	Container



Telecom Rack

Power Plant System With Battery

- Natural Air Cooled Architecture
- Optimized for Modular Systems
- Advanced Cell-Level Thermal Isolation
- High Precision Temperature Control
- AI-Optimized Flow Channel Engineering
- Extended Cycle Life
- Wide Operating Temperature Range
- Robust Environmental Protection IP67

RACK CAPACITY	16kW	32kW
Rack Outer Size	1155 (H) x 585 (W) x 640 (D)	2200 (H) x 700(W) x 700 (D)
Rack Usable Size	990 (H) x 580 (W) x 615 (D)	2050 (H) x 650 (W) x 650 (D)
Rack Battery Capacity	400Ah	800Ah
Ultimate SMPS Capacity	16	32
Cooling Mechanism	Air Cooling	Air Conditioner
Smoke Detector	YES	YES
Busbar & Fuse Provision (Optional)	YES	YES
MCB (Optional)	YES	YES
Heating Mechanism (Optional)	YES	YES
IP Rating (As per the Customer Application)	IP 35 to IP 55	IP 35 to IP 55
Emergency Light	YES	YES

Energy Storage Solutions (ESS)

Energy Storage Solutions (261kWh)

Energy Storage Solutions (418kWh)

Product advantages:

- High Safety: Complies with UL 9540A & NFPA 855 standards for reliable protection.
- Long Lifespan: Liquid cooling keeps temperature difference below 2°C, improving cycle life by 30%.
- High Energy Density: Delivers over 400kWh actual discharge capacity for maximum efficiency.
- Scalable Design: Multiple units can be interconnected with flexible layout options.
- Easy Maintenance: Modular structure enables quick and convenient servicing.
- Quick Installation: Factory-tested and ready for fast on-site deployment.



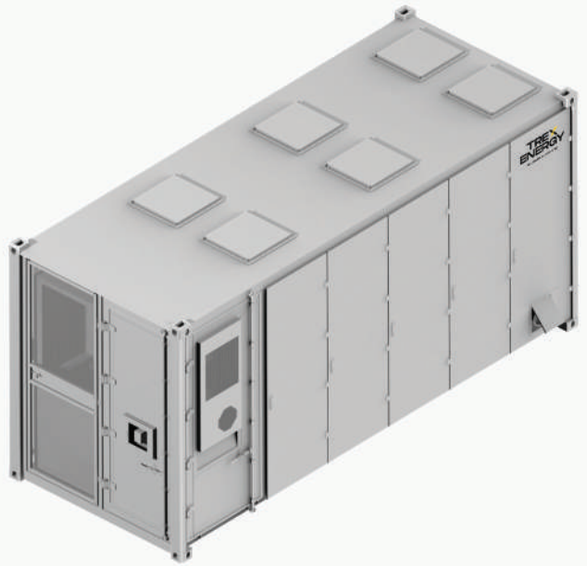
ESS (261kWh)

Product Type	261kWh ESS
Product Category	261kWh ESS
Rated Energy	261 kWh
Rated Power	125 kW
Rated Output Voltage	728-910 Vd.c.
Cell Capacity	314 Ah
Cell Type	$LiFePO_4$
Configuration	1P260S 832V/314Ah
Discharge Current	57 A (0.5C) / 125 kW
Charging Current	157 A (0.5C) / 125 kW
Charging Temperature	0°C to +55°C
Discharging Temperature	-20°C to +55°C
Communication Port	CAN, RS485, Ethernet
Cooling Method	Liquid Cooling
Protection Level	IP55
Product Weight	~~ 2650kg
Dimensions	1100(W)*1350(D)*2300(H) mm
Testing & Certifications	IEC 62619, IEC 62933, UN38.3, IEC 61000, IEC 62477-1

ESS (418kWh)

Product Type	418kWh ESS
Product Category	418kWh ESS
Rated Energy	418 kWh
Rated Power	209 kW
Rated Output Voltage	1331.2 Vd.c.
Cell Capacity	314 Ah
Cell Type	$LiFePO_4$
Configuration	1P52S (1P416S : 8 Module in series)
Discharge Current	0.5C
Charging Current	0.5C
Charging Temperature	0°C to +55°C
Discharging Temperature	-20°C to +55°C
Communication Port	CAN, RS485, Ethernet
Cooling Method	Liquid Cooling
Protection Level	IP55
Product Weight	3.5Tonne
Dimensions	1100(W)*1350(D)*2300(H) mm
Testing & Certifications	IEC 62619, IEC 62933, UN38.3, IEC 61000, IEC 62477-1

Battery Energy Storage Solutions (BESS)



Battery Energy Storage Solutions (5MWh)

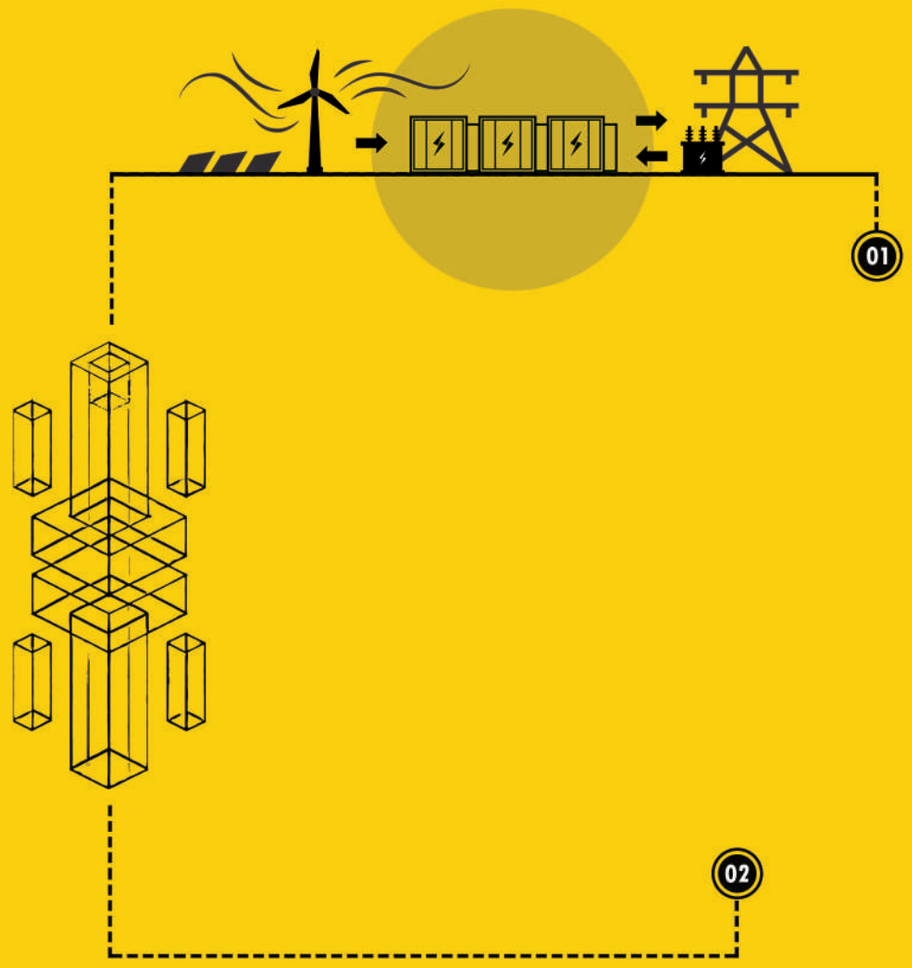
Product advantages:

- High Safety: Compliant with UL9540A & NFPA855 safety standards.
- High Efficiency: Battery efficiency ≥96%; DC-side RTE up to 96%.
- Easy Installation: Fully integrated design in a 20GP container.
- Advanced Protection: IP55 system protection with IP67 battery pack safety.
- Cost-Effective: 50% higher energy density for better lifecycle returns.

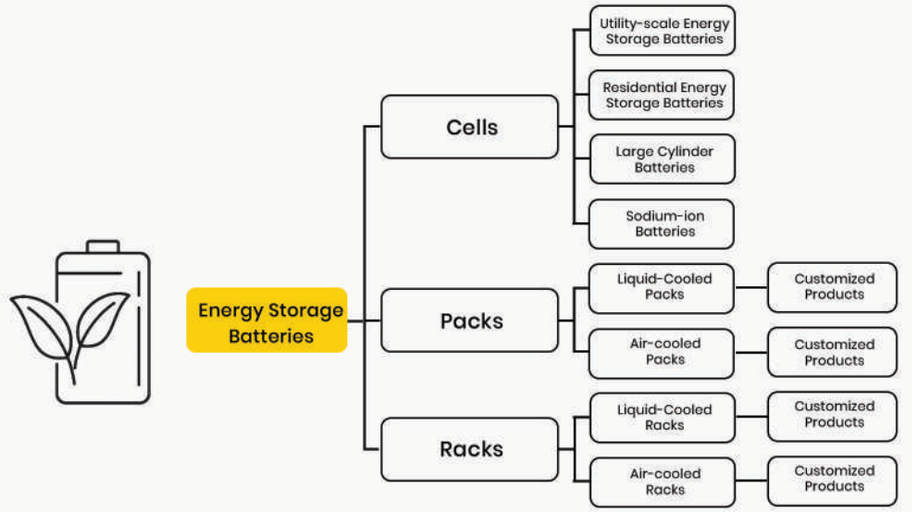
BESS (5MWh)

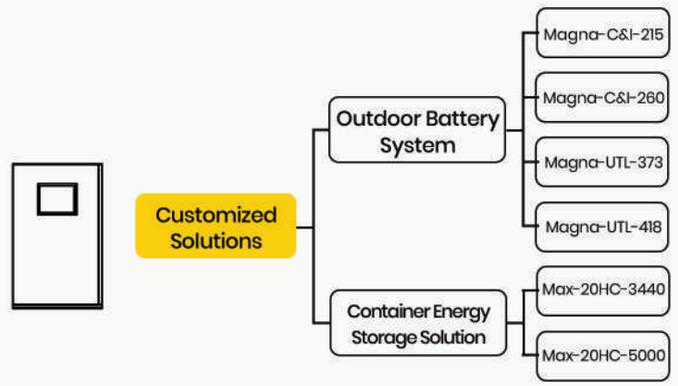
Product Type	Max-20hc-5000
Product Category	20HC DC Liquid-Cooling Container ESS
Rated Energy	5.0MWh@0.5C
Rated Power	<= 417kW*6/1.25MW*2
Rated Output Voltage	1040-1500 Vd.c.
Cell Capacity	314 Ah
Cell Type	LFP
Configuration	1P416S*12
Discharge Current	157 A
Charging Current	193 A
Charging Temperature	-30 ~ +50°C
Discharging Temperature	-35 ~ +60°C
Communication Port	CAN, RS485, RJ45/ Optical Fiber
Cooling Method	Liquid Cooling
Protection Level	IP55
Product Weight	<42T
Dimensions	W6058*D2438*H2896 mm (20HC)
Testing & Certifications	GB/T36276 / IEC62619 / IEC62933 / IEC61000/ UL1973/UL9540A

PRODUCTS AND SOLUTIONS



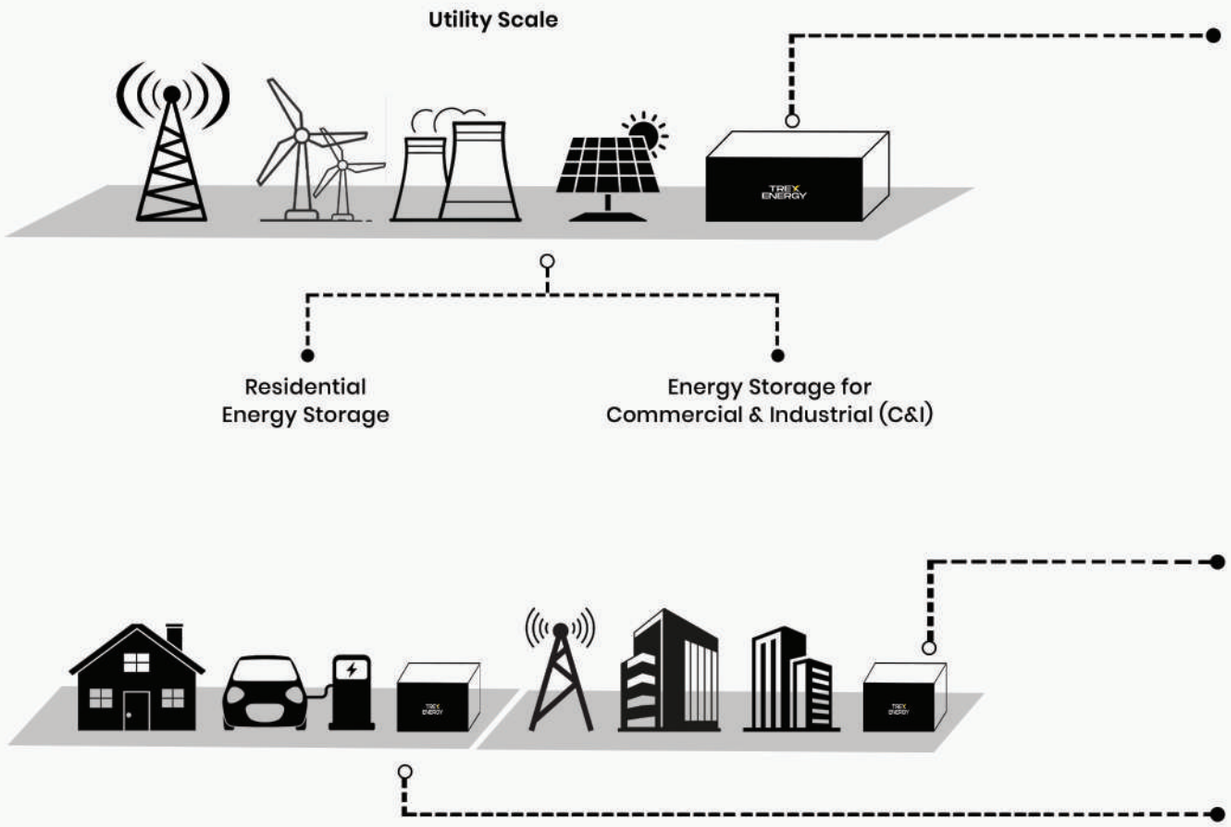
PRODUCT MATRIX





APPLICATIONS OF ENERGY STORAGE BATTERIES

Trex Energy's energy storage solutions are deployed across utility-scale, residential, commercial, and industrial applications.



UTILITY-SCALE ENERGY STORAGE

Peak Load Optimization: Stores energy during low demand and delivers power during peak hours to reduce grid stress.

Renewable Power Stabilization: Smoothens solar and wind fluctuations to ensure grid-compliant energy delivery.

Energy Arbitrage: Stores excess renewable energy and supplies it during high-value demand periods.

Fast Frequency Response: Millisecond-level response enhances grid stability and reliability.

Congestion Management: Improves transmission utilization and minimizes grid upgrade requirements.

Reliable Backup Power: Ensures uninterrupted power during grid outages.

COMMERCIAL & INDUSTRIAL (C&I) STORAGE

Tariff-Based Savings: Charges at low tariffs and discharges at peak tariffs to reduce energy costs.

Peak Demand Reduction: Optimizes load profile and avoids costly capacity expansion.

Emergency Power Backup: Protects critical operations during power interruptions.

RESIDENTIAL ENERGY STORAGE

Lower Electricity Bills: Stores energy during low-cost periods for use during peak pricing.

Off-Grid & Hybrid Support: Ensures reliable power with solar integration, even in remote areas.

Portable Power Solutions: Ideal for emergencies, outdoor use, and backup needs.



SERVICE AND SUPPORT

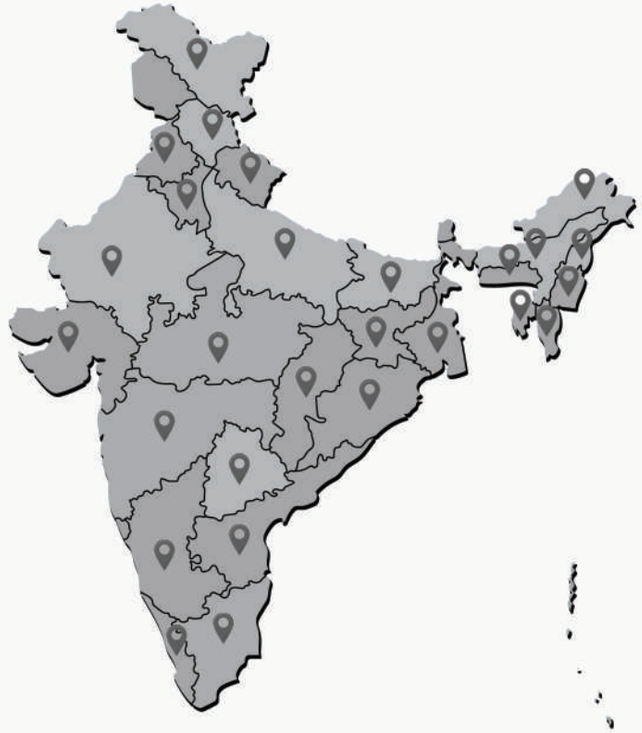
Our Greatest Asset: Our total team of 200+ professionals is our greatest asset. This includes a large, dedicated service team, a specialized BRC technical team, and an experienced projects team, ensuring expertise at every level of service delivery.

Nationwide Presence: Our strategically located service teams, organized into East, Central, North, West, and South regions, ensure we can provide rapid on-site support anywhere in the country. This vast network, coordinated from our central office in Hyderabad, guarantees a swift response to all service requirements.

Structured for Success: Our service hierarchy is built for efficiency and accountability. Regional Service Managers lead teams of Circle Managers and Service Engineers, ensuring clear communication and expert local support, all under the guidance of our senior leadership.

Centralized Data & Customer Support: A dedicated Data Center team provides continuous monitoring and backend support, ensuring seamless coordination and customer service.

200+ PROFESSIONALS IN 25 REGIONS



STATE-OF-THE-ART MANUFACTURING & TESTING

Our modern, in-house facility in Hyderabad is central to our quality promise, equipped for the complete assembly of high-quality Lithium-ion battery packs and modules in proud support of the 'Make in India' initiative.

To guarantee performance, our comprehensive testing laboratory validates our battery packs with high-voltage testers and environmental chambers. This integrated approach ensures every component we deliver meets the highest standards of reliability and safety.



GLOBAL ADVANCED AUTOMATED PRODUCTION

State of the Art Factories

Imported globally advanced production lines
Full coverage of FFU manufacturing environment
Class & manufacturing environment
Industry leading quality driven by continuous process improvement
24-hour monitoring and control of key production procentes

Key Processes

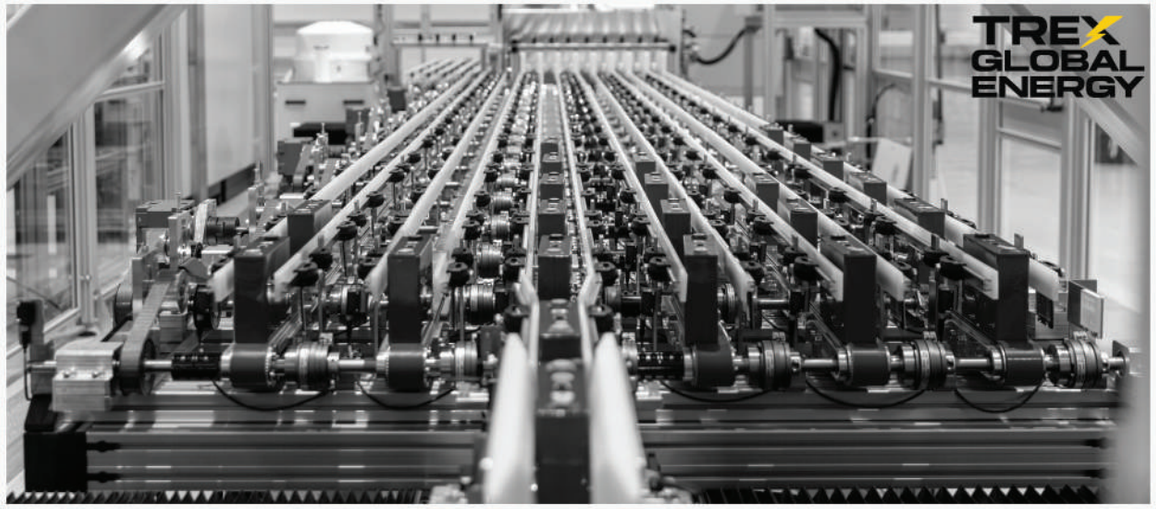
Pack: Adopting the industry-leading manufacturing technology, it perfectly improves the efficiency and productivity.

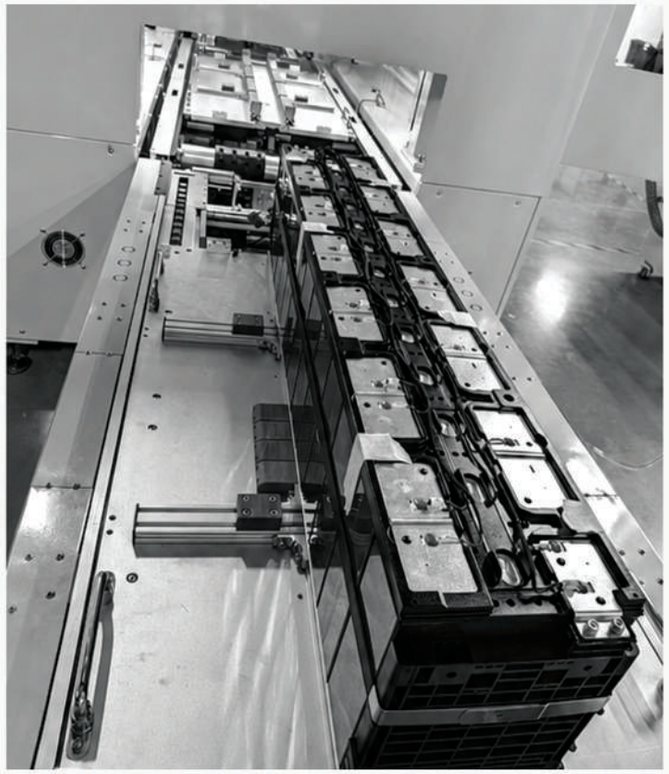
Rack: Charge and discharging facility upto 1600V by using the globally leading testing equipment.
Our manufacturing capabilities enable us to deliver reliable, high-quality energy solutions at scale.

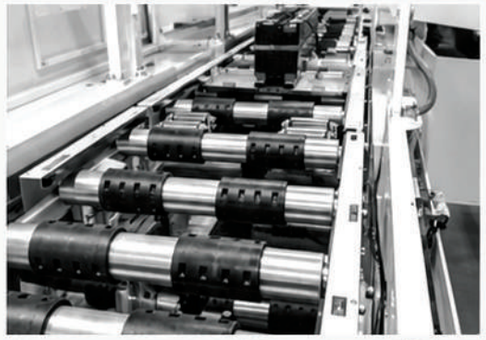
High Consistency

Utilizing high-precision fully automatic protection equipment, comprehensive ES system coverage throughout the entire process, real-time monitoring of equipment parameters and product promises with a big data warming system, fully automated closed-loop correction, achieving high consistency in battery cell products, with multiple data indicators reaching a 6 Sigma.

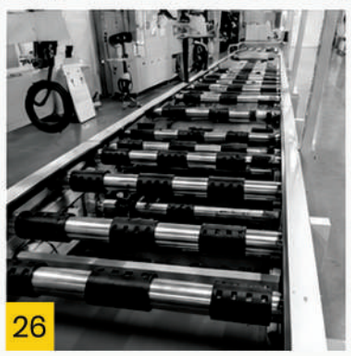
"Through responsible manufacturing, we create quality products, generate employment opportunities, and contribute to sustainable economic growth."



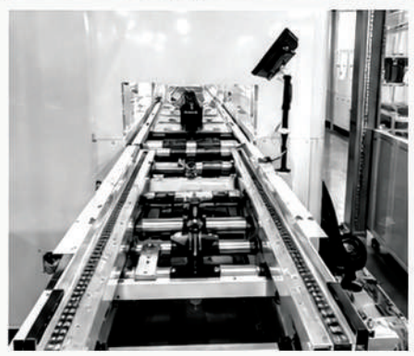












L&T SOLAR/BESS PROJECT OF 64 MWH CAPACITY, GUJARAT, INDIA





KSPDCL BESS PROJECT OF 5.5 MWH CAPACITY, KARNATAKA, INDIA



SITE
UNDER
CONSTRUCTION