



FACT SHEET

About Trinasolar

We are committed to leading the way in smart PV and energy storage solutions and facilitating the transformation of new power systems for a net-zero future.

Mission: "Solar Energy for All"

Financial Soundness

💰 Total asset

USD **17.02** billion

H1 2026

💰 Revenue

USD **4.7** billion

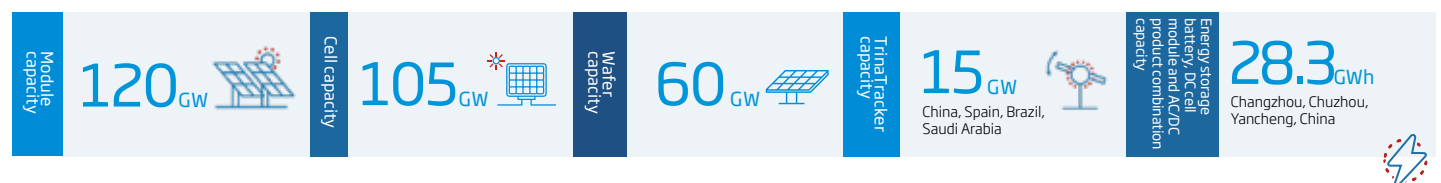
H1 2026

Global presence



Capacity

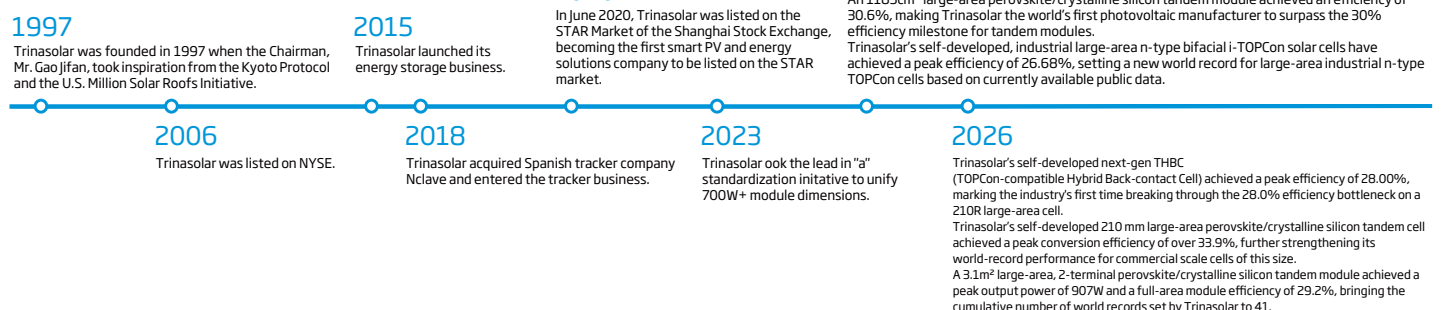
Built Capacity



With innovation-driven development as its most important strategy and core driving force, Trinasolar has put in place a comprehensive and leading science and innovation system. It has pioneered the participation of Chinese solar and energy storage companies in the development of international standards, establishing itself as a global leader in solar innovation and standard-setting



Milestone





Module

With a 29 years' legacy of solar technology innovation and a strong focus on customer value, Trinasolar leads the industry in standardizing module dimensions across large, medium and small formats. Trinasolar's Vertex N modules deliver all-scenario solutions tailored to the needs of utility-scale, C&I, and residential applications. In 2024, Trinasolar launched its i-TOPCon Ultra technology, upgrading the Vertex N series for all-scenario applications and further increasing module power, leading the industry into TOPCon 2.0 era. In 2025, driven by the needs of global customers, Trinasolar launched integrated solutions tailored to extreme weather and desert environments, marking a new era for scenario-based PV solutions. Meanwhile, the company has been deeply cultivating the core technology of perovskite tandem cells, breaking world records for cell efficiency and module power output seven consecutive times, ranking first globally for invention patent applications, and successfully achieving multiple critical industrialization milestones. As of now, Trinasolar has set or broken a cumulative total of 41 world records. Additionally, the Vertex S+ series redefines aesthetics for solar modules by combining exceptional performance with an award-winning design. Vertex S+ has earned multiple design accolades including Red Dot Award, the German Design Award, the IDEA Award and the Good Design Award. In 2026, the company launched its self-developed, next-gen THBC solar cells. Combining the advantages of three existing technologies, THBC represents the absolute pinnacle and ultimate synthesis of single-junction crystalline silicon cells. For the future crystalline silicon era, Trinasolar is set to establish a new leadership paradigm driven and mutually supported by a dual-engine strategy: "TOPCon + THBC."



Shipments

PV Module Shipments
in H12026

25 GW⁺

PV Module Shipments
by the end of June 2026

352 GW⁺

cumulative 210 module
shipments by the end of June 2026

260 GW⁺
★ ranking first globally

R&D

With i-TOPCon Ultra technology, Vertex N modules have been upgraded, leading the industry into the **TOPCon 2.0** era.

Trinasolar is the first module manufacturer to achieve mass production of **700W⁺** n-type TOPCon modules, leading the industry into the **PV 700W⁺** era.

In 2024, Trinasolar successfully produced the world's first fully recycled c-Si module

In June 2025, Trinasolar's 1185cm² large-area perovskite/crystalline silicon tandem module achieved **30.6%** efficiency. Trinasolar became the first photovoltaic manufacturer in the world to surpass the 30% efficiency milestone for tandem modules, which is included in Prof. Martin's Solar Cell Efficiency Tables.

In December 2025, Trinasolar's self-developed 210mm large-area 2-terminal perovskite/crystalline silicon tandem solar cell reached a peak efficiency of **32.6%**, as independently certified by a third party.

In December 2025, Trinasolar's self-developed, high-efficiency n-type bifacial i-TOPCon solar cells achieved a peak efficiency of **26.68%**, setting a new world record for large-area industrial n-type TOPCon cells based on currently available public data.

In April 2026, Trinasolar's self-developed, next-gen THBC (TOPCon-compatible hybrid back-contact cell) solar cells achieved a peak conversion efficiency of 28.00%, marking the industry's first time breaking through the **28.0%** efficiency bottleneck on a 210R large-area cell, and continuously leading the industry toward a higher-quality future through technological innovation.

In the first half of 2026, Trinasolar's self-developed 210 mm large-area perovskite/crystalline silicon tandem cell achieved a peak conversion efficiency of over **33.9%**, further strengthening its world-record performance for commercial-scale cells of this size

In June 2026, Trinasolar's self-developed 3.1m² large-area perovskite/crystalline silicon tandem module achieved a peak power output of **907W** and a full-area module efficiency of 29.2%, setting a new world record.

Global trust and reputation

Trinasolar's bankability and reliability are consistently endorsed by the world's leading financial institutions and independent third-party organizations.



BNEF

Tier 1 Module Manufacturer
The world's only PV brand to receive
100% bankability rating from
all survey respondents for 8 times



PVEL

Recognized as a "Top Performer"
module manufacturer for
eleven consecutive years



RETc

Awarded the
"Overall Highest Achiever"
designation for
five consecutive years



PV ModuleTech
Highest bankability
rating for PV modules



Wood Mackenzie
Ranked No.1 in Wood Mackenzie's
Global Solar Module Manufacturer
Ranking for H1 2025
Top 10 Global Photovoltaic Module
Manufacturers in 2025



S&P
Tier 1 PV module supplier

Trina Storage, a business unit of Trinasolar, is an energy storage system solutions provider offering core products including energy storage cells, battery containers, power conversion systems (PCS), and integrated smart energy management systems. Its solutions are deployed across a range of applications, including source-grid-side, commercial and industrial, and residential energy storage.

In 2025, Trina Storage completed the global launch of its next-generation Elementa 3 large-capacity platform, featuring self-developed 500Ah+ large-capacity battery cells. Through comprehensive improvements in energy density, efficiency, and total lifecycle throughput, the levelized cost of storage (LCOS) has been reduced by 12.5% compared to the previous generation. Its compact side-by-side and back-to-back design reduces the required footprint by 11.3%. Features such as one-click site upgrades and real-time monitoring enhance operation and maintenance (O&M) efficiency by up to 90%. Its integrated containerized transportation solution mitigates logistics risks and shortens delivery cycles. This system not only accommodates diverse trading scenarios but also significantly supports cost reduction and efficiency enhancement for power stations, thereby creating greater economic value for customers. Trina Storage's grid-forming solution autonomously constructs the power grid in voltage source mode, providing virtual inertia, short-circuit support, and black-start capabilities, serving as the stability cornerstone for power systems with a high penetration of renewable energy.

In 2026, Trina Storage launched the Elementa + Electra AC-DC integrated solution. The Elementa DC energy storage system and Electra AC platform together form a comprehensive solution, with the two platforms operating independently and offering flexible configurations while enabling deep system-level integration, simplifying project design and optimizing implementation processes. Featuring a three-layer liquid-cooling architecture that keeps cell temperature differentials within 2.5°C, together with the Electra AC platform's full-power response within 10 milliseconds, the solution can effectively meet a wide range of power regulation requirements. Its grid-forming and black-start capabilities further enable the system to provide active support for grid stability.

Currently, the Elementa series has successfully completed operational validation under a wide range of extreme environmental conditions, including plateaus, severe cold regions, tropical islands, Gobi deserts, and humid rainforests. Trina Storage has delivered GWh-scale orders in multiple countries and regions including Asia, Europe, South America, North America, and the Middle East and Africa. Trina Storage's AIDC full-domain integrated solution is driven by a dual-engine strategy of "generation-storage grid-forming + distribution-load efficiency." It builds an end-to-end, full-link system spanning from energy production to computing power consumption, providing AI data centers with millisecond-level response and highly reliable green energy guarantees.



Manufacturing

Manufacturing bases
Chuzhou, Anhui Province;
Changzhou and Yancheng,
Jiangsu Province

Cell and ESS capacity
28.3GWh

Delivery Assurance

Global engineering and technology centers and three commissioning centers provide localized, closed-loop services across the entire project lifecycle, from solution design and product delivery to on-site installation and post-delivery operation and maintenance.

Shipments

In H1 2026		By the end of June 2026	
energy storage shipments exceeded	5 GWh	cumulative energy storage shipments exceeded	25 GWh
overseas shipments accounting for over	95%	cumulative shipments in Europe exceeding	4 GWh
backlog orders exceeded	16 GWh	cumulative deliveries in North America exceeding	1 GWh

R&D

- ✓ By the end of June 2026, Trinasolar had filed over 1,600 patent applications, including more than 970 patents granted, and participated in the formulation of multiple national standards.
- ✓ **4 R&D platforms:** Advanced Energy Storage Technology Research Institute, Energy Storage Engineering Center, Digital Power Research Institute and Power Electronic Research and Development Center.
- ✓ Trina Storage earned the world's first UL Verified Mark certificate for thermal performance of its liquid-cooled energy storage containers.
- ✓ **In-house Trina Storage Cells:** Extended battery lifetime & performance with up to 12000 cycles.
- ✓ **Elementa 3 Platform:** Built on high-capacity cell technology, sets a new benchmark for scenario-based energy storage solutions through a safer and more reliable system, clearer returns, and greater flexibility across diverse applications
- ✓ **Next generation Potentia C&I Smart ESS cabinet*:** Integrates in-house A+ Trina Storage Cells for a seamless PV+storage ecosystem.

* Only available in several regions

Global trust and reputation



BNEF
Tier 1 energy storage manufacturers for 11 consecutive quarters
Top bankable energy storage integrator and manufacturer



DNV
Safety and bankability certification



UL
Safety and bankability certification



S&P
Top 10 energy storage integrators in China, the UK and Australia by S&P Global
Tier 1 ESS supplier



Wood Mackenzie
Grade A Highest Certification



InfoLink
Ranked 9th among Chinese companies on global ESS integrators ranking



GGII
TOP 10 Chinese Energy Storage System (AC-side) suppliers for global shipments & domestic shipments



EESA
Global ESS Shipments TOP 10
Global ESS Battery Shipments TOP 15



ESIE
Top 10 in global energy storage shipment



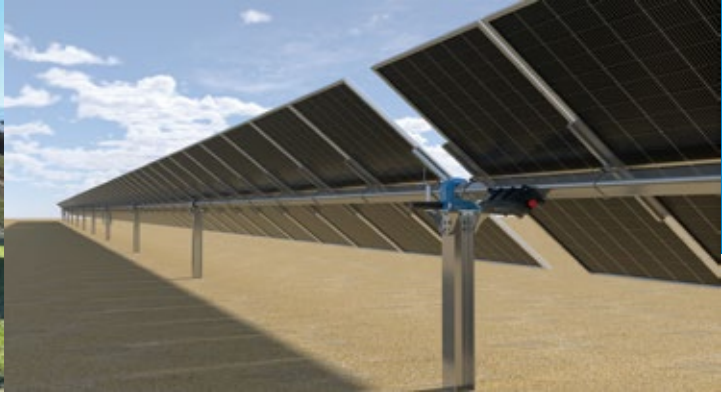
CNESA
Top 10 global shipment in Chinese ESS integrators (H1 2025)



SMM
Tier 1 utility-scale ESS Integrator
Tier 1 Generation and Grid-side ESS supplier

TrinaTracker is a leading smart tracker solution provider within Trinasolar. It specializes in solar tracker development, manufacturing, engineering design, installation, and maintenance. With 27 years of experience in the solar tracker industry, TrinaTracker is the only company with R&D and engineering centers in both Europe and Asia for modules and trackers.

TrinaTracker has two main product lines: Vanguard-1P and Vanguard-2P. Its self-developed Smart Control System, which integrates the SuperTrack smart algorithm, Trina Smart Cloud, and electronic control systems, has been verified to enhance the power generation of solar plants.



Manufacturing

Manufacturing bases in
China, Spain, Brazil
and Saudi Arabia

Global capacity
15GW

Delivery Assurance

TrinaTracker has multiple operation centers (Asia, the Middle East & Africa, Europe, the Americas) to deliver localized solutions and services.

Shipments

Over **43** GW cumulative shipments
by the end of 2025

TrinaTracker has provided smart
tracking solutions for over **900** solar power plants
in more than **70** countries.

R&D

Over 200 patent applications, including worldwide patents for a spherical bearing and the Trina Clamp.

Technological and Research Centers in Spain and China; partnered with multiple universities and tech companies in renewable energy R&D, including Institute of Solar Energy at Universidad Politécnica de Madrid. TrinaTracker's Changzhou Technology Centre received official recognition as a 2026 Changzhou Municipal Enterprise Technology Centre.

Development of advanced smart tracking solutions, designed for complex scenarios, integrating Artificial Intelligence and digitalization strategies for future PV plants.

Global trust and reputation



Reuters
Reuters Top 100 Innovators of
Global Energy Transition



DNV
Technical due diligence
evaluation



S&P
Top 6 solar tracker supplier
globally in 2024



Wood Mackenzie
Ranked No.2 globally in PV tracker rankings
Top 6 solar tracker supplier globally in 2024
Top 4 solar tracker suppliers in
Latin America, Middle East, Europe, Asia Pacific



SMM
Tier 1 PV Tracker Supplier

Sustain with SOLAR

Trinasolar joined the United Nations Global Compact (UNGC), building a more sustainable future together with global participants.

Sustainability

Optimization

Leading

Action

Responsibility

Climate Strategy

Long-term goal:
Net-zero emissions by 2050

ESG Ratings

EcoVadis 2025 Silver Medal for Sustainability Performance

Morningstar Sustainability ESG Risk Rating score of 25.6

S&P Global CSA rating 64

Sustainable Fitch brand score 82, rating "2"

CDP climate change and water security evaluations at Management level (B)

Wind ESG rating of AA

Sino-Securities Index ESG rating of AA

Six-Star "Excellent" Rating issued by the China Supplier ESG Rating Platform

Sustainability Awards and Honors

Fortune China ESG Impact List 2026

S&P Global Sustainability Yearbook (China Edition) 2026

Wind Top 100 Best ESG Practices of China Listed Companies

Bloomberg Businessweek/Bloomberg Green 2026 Watch List - "ESG champion"

Yicai & Shanghai Modern Service Industry Federation - Sustainable Pioneer Case

EUPD Research Sustainable Information Disclosure Award

BSI Sustainability Performance Award

Huxiu "Sustainable Brand Model" Awards - Energy Saving & Carbon Reduction

Huxiu "Sustainable Brand Model" Awards - Corporate Compliance

China Energy News - Leading Carbon - Neutral Brand with Green Impact

China Enterprise Reform and Development Society (CERDS) - Demonstration Enterprise for Supply Chain ESG Management

Environmental Performance

GHG Emissions Intensity of

Cell

Decreased by **43.43%** from the 2020 baseline

Module

Decreased by **75.19%** from the 2020 baseline

Integrated Energy Consumption Intensity of

Cell

Decreased by **28.16%** from the 2020 baseline

Module

Decreased by **53.18%** from the 2020 baseline

Water Consumption Intensity of

Cell

Decreased by **91.62%** from the 2020 baseline

Module

Decreased by **84.02%** from the 2020 baseline

2024 Asia-Pacific Water Management Award

Sustainable Manufacturing

- Trinasolar holds ISO 14040, ISO 14001, and ISO 50001 certifications and conducts annual greenhouse gas inventories per ISO 14064 standards.
- In 2025, Trinasolar completed 57 energy-saving projects across 35 facilities, cutting electricity use by 145,000 MWh, with total investment in energy conservation and environmental protection reaching **USD 32.4 million**. Since 2021, the company has cumulatively saved 313,000 MWh of electricity.
- In 2025, 278,000 MWh of renewable electricity was generated by on-site PV.
- Trinasolar's Changzhou, Suqian and Yancheng manufacturing facilities are recognized as National Green Factory; Yiwu manufacturing facility is awarded with a four-star "Zero-carbon" certification; Yancheng Dafeng manufacturing facility received zero-carbon factory and **zero waste landfill certificates** from TÜV Rheinland. The two manufacturing sites also earned ESG certifications from the Solar Stewardship Initiative.
- TrinaTracker received carbon footprint certification for its manufacturing plant in Viana, Spain, granted by Bureau Veritas.

Product Lifecycle Green Management

- In 2024, Trinasolar successfully produced the world's first **fully recycled c-Si module**.
- Trinasolar's Vertex, Vertex N modules are granted UL EPD certifications and EPD Italy certification; the full range of Vertex N modules have obtained carbon footprint certification; Vertex S+ modules are awarded for EPD Norway and EPD International.
- TrinaTracker Vanguard 1P and Vanguard 2P received Bureau Veritas Carbon Footprint Verification.
- Elementa 2 earned full lifecycle EPD certification by UL Solutions, complied with ISO 14067, and obtained Life Cycle Assessment (LCA) Certificate.

Social Performance

Female employee ratio: **26.05%**
Female managers ratio: **24.85%**

Employees with disabilities: **38**

Annual training hours per employee: **25.98 hours**
Training completion rate: **100%**

Occupational health and safety investment: **USD 11 million**

Community contribution and charities investment: **USD 1.6 million**

ISO 27001
Information Security Management System Certification

ISO 45001
Occupational Safety and Health Management System

SA 8000
Social Responsibility Certification

ISO 9001
Quality Management System

Trinasolar has signed the United Nations Women's Empowerment Principles (WEPs), reaffirming its commitment to advancing global gender equality and empowering women.

Corporate Governance

Violations of business ethics or unlawful practices: **0**

Women accounted for of the board of directors: **33.33%**

Annual audit plan completion rate: **100%**

Completion rate of business ethics report processing: **100%**

Assessment from TÜV Rheinland of the full traceability chain: **AA**

The percentage of suppliers who have signed the Supplier Social Responsibility Commitment: **100%**

Trinasolar holds ISO 37301 Compliance Management System Certification and ISO 37001 Anti-Bribery Management System Certification

Established Intellectual Property Management Committee and integrated IP management into the Employee Code of Business Conduct and Ethics, fostering company-wide IP protection awareness.