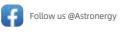




www.astronergy.com









Solar Together, FOR A GREENER WORLD



Contents



Tier 1 PV Module Maker listed by BloombergNEF



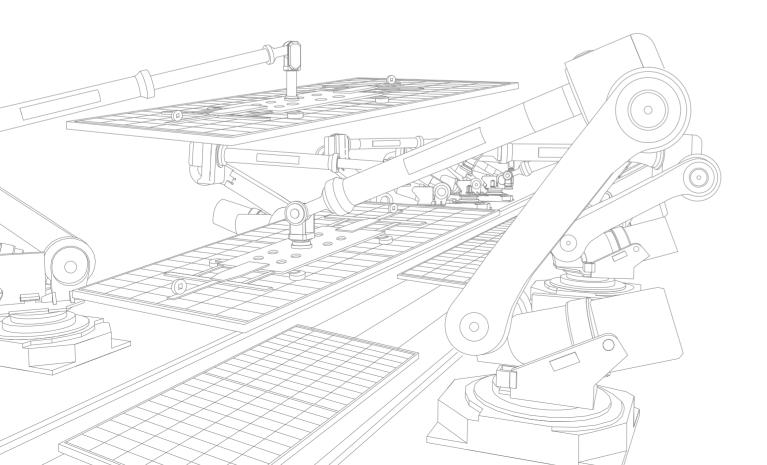
TOP Performer honored by PVEL for 9 times



Overall Highest Achiever by RETC



Group-level Gold Rating by EcoVadis



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Company Profile About CHINT Group



25 Billion USD

2024 CHINT Group Revenue



4.14 Billion USD

PV Modules Revenue in 2024



50000+

Employees Worldwide



140 +

Countries and Regions Where Businesses Cover



8.3 Million Tons

CO2 Emissions Reduced per Year



8.3 Billion kWh

Green Electricity Provided for the Whole Society per Year



Founded in 1984, CHINT Group Co., Ltd. (hereinafter referred to as "CHINT") is a global

leading smart energy solutions provider. Over the past 40 years since its establish-

ment, CHINT has always focused on industry and brand building, deeply implemented the strategy of "Industrialization, Technologization, Internationalization, Digitali-

zation and Platformization", and formed three major segments of "Green Energy,

Company Profile ___ About Astronergy



Under the CHINT Group, Astronergy is an intelligent manufacturing enterprise focusing on photovoltaic cells and modules. Founded in 2006, it is one of the earliest private enterprises in China to set foot in the photovoltaic field. It has the capacity to design and manufacture various cutting edge technology solar products for the markets.

Committed to being the most competitive photovoltaic module supplier worldwide, Astronergy sets its mission to create a sustainable and net-zero carbon world with solar power. Focusing on R&D, production and sales of high-efficiency crystalline silicon PV cells and PV modules, Astronergy has continuously launched the ASTRO series high-efficiency, high-quality, high-performance modules.

Both its bifacial and monofacial ASTRO series modules using large-size wafers could be perfectly applied in various scenarios of utility-scale power stations, commercial & industrial (C&I) PV systems and residential PV systems.

With business footprints in over 140 countries and regions, Astronergy has established intelligent manufacturing bases at Haining in Zhejiang, Yancheng in Jiangsu, Jiuquan in Gansu, Songyuan in Jilin, Fengyang in Anhui, Yiwu in Zhejiang, Yanchi in Ningxia, Yueqing in Zhejiang, Fuyang in Zhejiang, in Thailand and in Turkey. It has also set up branch companies and sales centers in countries like Germany, Spain, the Netherlands, Poland, the United States, Canada, Brazil, Australia, Singapore, Japan, and Thailand, achieving great sales performance of Astronergy PV products in international mainstream markets of Europe, North America, Latin America, and Asia Pacific.



130 GW+

Total Global Shipments*



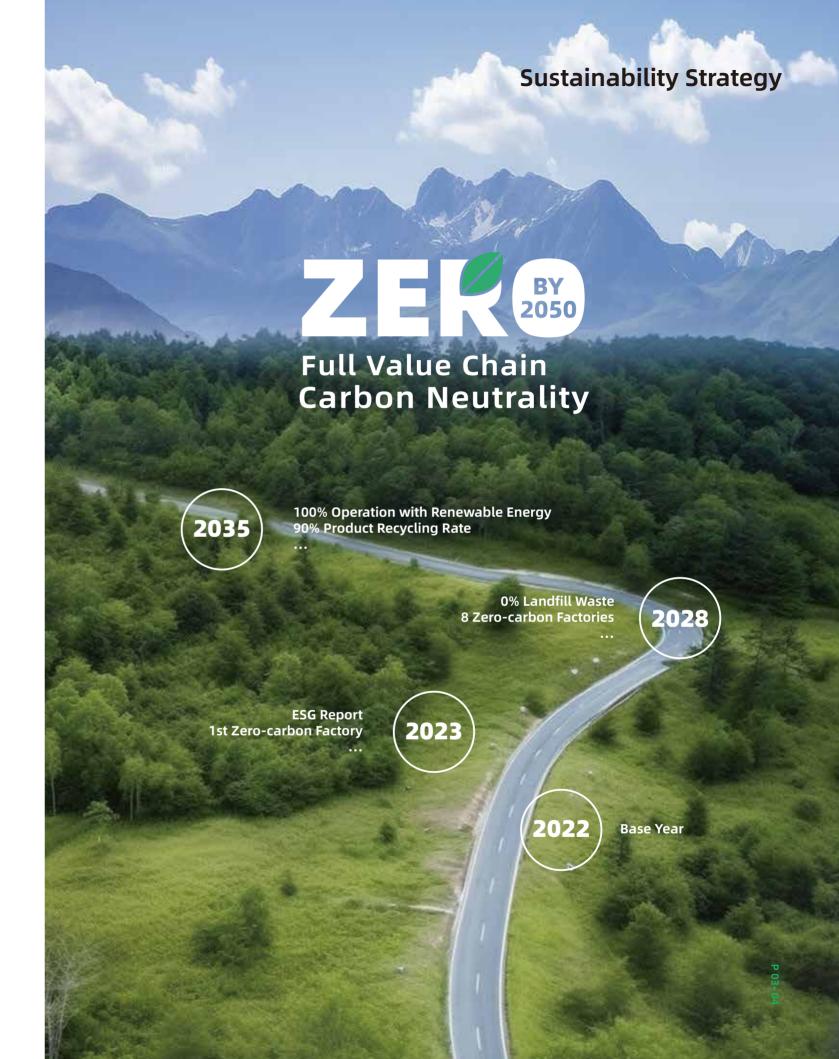
TOP 4

n-type TOPCon Product Shipment Worldwide



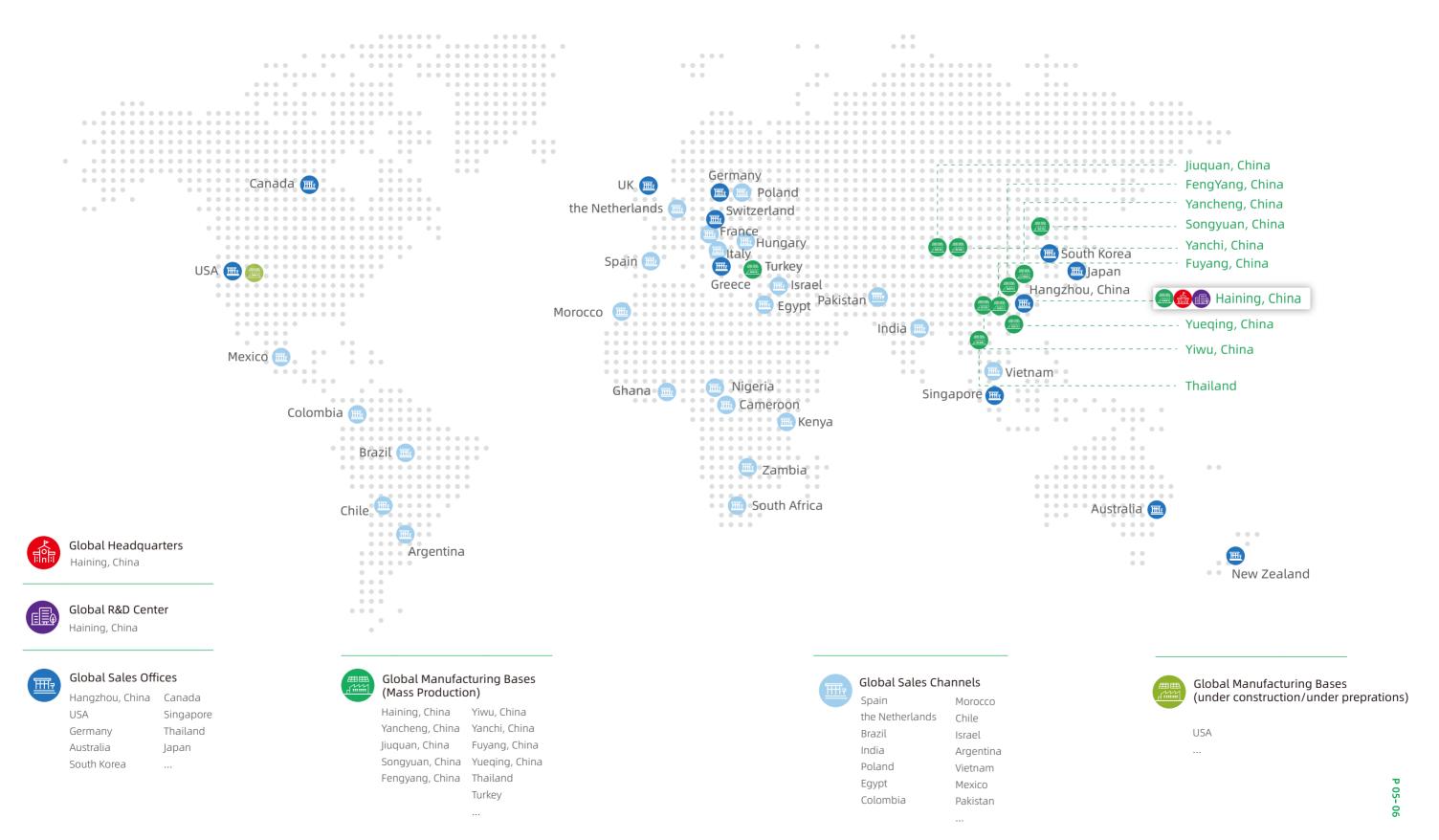
140 +

Business Covered Countries Countries



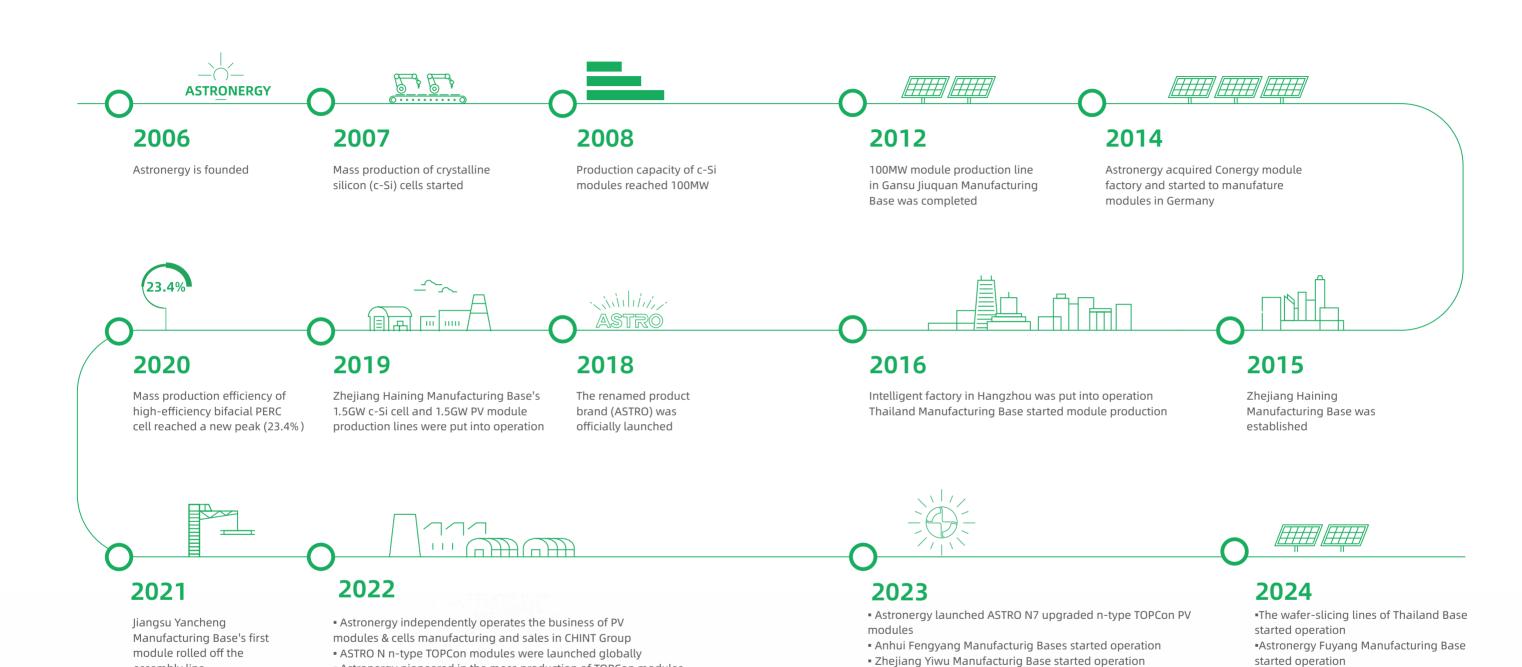
Globalization

Astronergy product sales footprint covers more than 140 countries around the world. And it has set up branches in the United States, Germany, Australia, Canada, Singapore, Thailand, Japan and other countries to help the process of globalization and win the full trust of customers and good reputation in the industry with credibility.



Milestones

assembly line



Ningxia Yanchi Manufacturing Base started operation

Astronergy announced its Sustainability Strategy

from TÜV Rheinland

Zhejiang Yueqing Manufacturing Base started operation

Yancheng Manufacturing Base got zero carbon factory certification

•Global shipment of Astronergy solar

modules hits 130GW

Astronergy pioneered in the mass production of TOPCon modules

• Jilin Songyuan Manufacturing Base started operation

Brand Value



For 9 years, Astronergy has been honored by PVEL as "TOP Performer" among module manufacturers



Astronergy has won 8 awards of "All Quality Matters" from TÜV Rheinland

Tier 1 BloombergNEF

For a long time, Astronergy has been listed as the world's Tier 1 PV Module Maker by Bloomberg NEF



TOP 10 PV Modules Suppliers released by S&P Global



in "China's Top 100 Private Enterprises with Social Responsibility" in 2022



No. 82 in "2022 China's Top 500 Private Enterprises



No. 235 in "2021 Top 500 Chinese Enterprises"



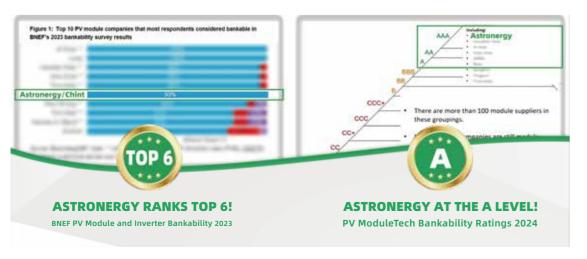
China Industry Award



China Charity Award

Bankability

In the annual "PV Module and Inverter Bankability" released by Bloomberg New Energy Finance (BNEF), Astronergy bankability rating has risen from seventh place on the 2022 list to sixth place on the 2023 list. And Astronergy has been in the upper for multiple consecutive quarters in PV ModuleTech bankability ratings report for 2023 and maintaining as "A" in the reports for all four quarters of 2024.



Intelligent Manufacturing



Pioneer and Explorer of Smart Manufacturing in PV Industry

Astronergy builds the first PV "Intelligent Manufacturing" transparent factory

With the automatic production line and highly information-integrated production mode, Astronergy enables the monitoring and traceability in the production process from raw materials to finished products and maintains its leading position in smart manufacturing.



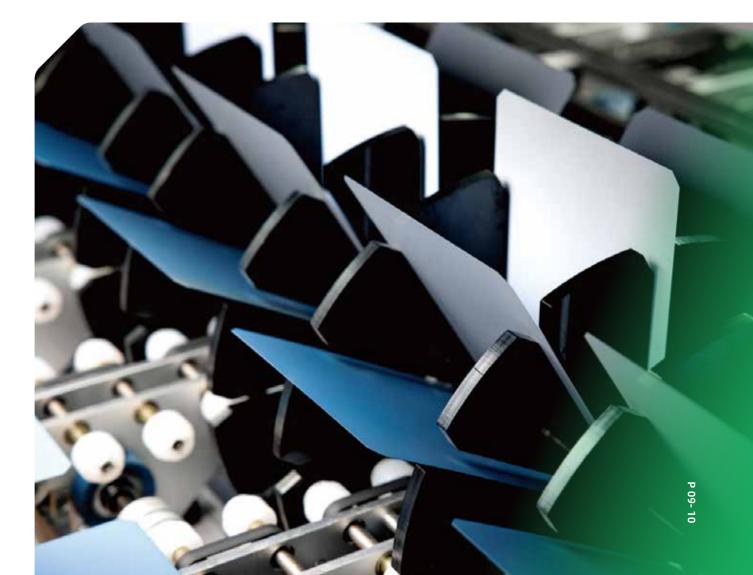
1st to Achieve Al Automatic
Detection of EL Defects

- * Supported by Big Data
- * Localization of Production Equipment
- * Fully Automated Production
- * AI Quality Detection
- * Automatic Monitoring of the Entire Process
- * Automatic Batching by Unmanned Vehicles



Outstanding in Intelligent Manufacturing

- * Sino-German Intelligent Manufacturing Demonstration Base
- * Intelligent Photovoltaic Pilot Demonstration Enterprise





R&D Strength

Global R&D Cooperation

Explore the "industry university research" integration mode with Shanghai Jiao Tong University, Zhejiang University, Zhejiang University of Technology, Hangzhou University of Electronic Science and Technology, New South Wales, Chinese Academy of Sciences Ningbo Institute of Materials and other universities and research institutions, integrate global innovation resources, and promote enterprise R&D innovation and talent training. Deeply cooperate with domestic and foreign frontline equipment and material manufacturers, carry out collaborative innovation in the industrial chain, and promote industry material innovation and industrialization.



Zhejiang University

Key Technologies of Low-cost and High-efficiency Solar Cells



Shanghai Jiao Tong University

New Tunnel Passivated High-efficiency Solar Cell & Module Technology



Zhejiang University of Technology

N-type Passivated Contact High-efficiency Bifacial Crystalline Silicon Solar Cells



Hangzhou Dianzi University

High-efficiency Monocrystalline PERC Cell Technology



UNSW SYDNEY Hydrogen **Passivation Project**

Accreditation Laboratory Qualifications

With strong testing capabilities, Astronergy has obtained the qualifications of CNAS Laboratory, CSA Witness Laboratory, TÜV Rheinland Witness Laboratory, Intertek "Satellite Program" Laboratory and other qualifications, and conducts more than 30 rigorous tests internally for PV modules.

Scientific Research Achievements

389 Utility Model 1110 Invention Patents 15

Leading in Cell & Module Efficiency



The average efficiency of mass-production n-type TOPCon 4.0 cells reaches 26.5%

Scientific Projects



The number of R&D personnel with intermediate titles and above at the national level accounts for more than 20%



Launched 2 Provincial-Level Frontier Innovation Projects (From 2023 to 2024)

Talent Declaration



Zhejiang Core Energy's Key Cooperative R&D Projects



Jiaxing Leading Team on Innovation



Haining Demonstration Project on Collaborative Innovation





ASTRO N7

650W/630W

TOPCon 5.0/TOPCon 4.0/ Rectangular Wafer SMBB/ZBB Tech/ Light Redirecting Film For Dual-glass Products





Application Scenarios:

Utility-scale Power Stations and Distributed Power Stations





ASTRO N8

725W/TOPCon 4.0 /210 Wafer SMBB Tech



Application Scenarios:

Utility-scale Power Stations



ASTRO N5

ASTRO N7s

Application Scenarios:

ZBB Tech

600W/ TOPCon 4.0 /183R Wafer SMBB/ZBB Tech

465W / TOPCon 5.0 / Rectangular Wafer

Residential Rooftop Solar Power Systems



Utility-scale Power Stations and Distributed Power Stations













































Rooftop Project of Hangzhou South Railway Station Hangzhou, Zhejiang Province, China

Project "Million Rooftops for Zhixi" Quzhou, Zhejiang Province, China

* 23MW

C&U Group Rooftop Project Wenzhou, Zhejiang Province, China













