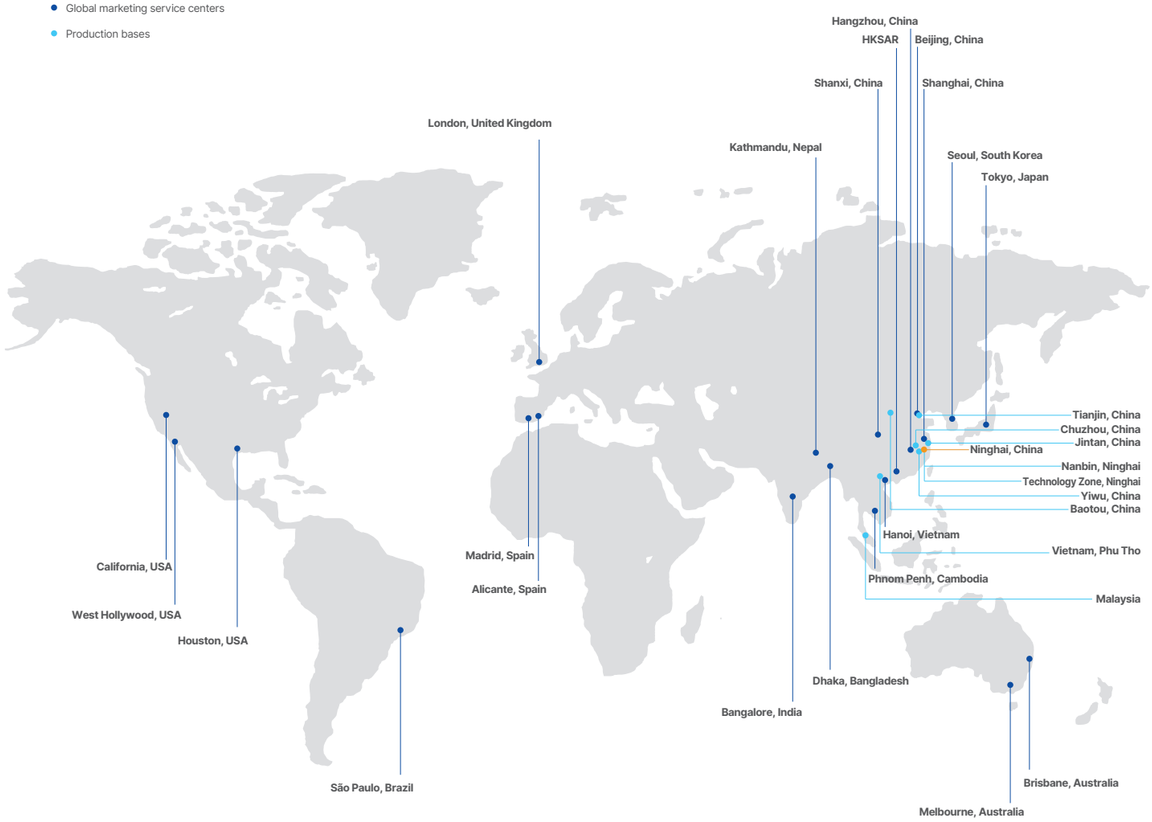
Global service network

- Headquarter
- Global marketing service centers
- Production bases



risen

PRODUCT BROCHURE

Risen Energy Co., Ltd.

Address: Tashan Industry Zone, Meilin Street, Ninghai, Ningbo, China

Tel: 400 8291 000

Fax: +86 574 59953599

Email: marketing@risen.com

Website: www.risen.com

RS-PB-2025V3

www.risen.com

ABOUT
RISEN ENERGY

As a global leading new energy enterprise, Risen Energy leads the global energy revolution with solar cells, solar modules, photovoltaic (PV) power stations, energy storage systems, and more. Providing the world with green solutions and integrated services in new energy, the company continuously helps customers achieve “low-carbon” or “zero-carbon” goals through its products, contributing to the transition into the carbon-neutral era for society as a whole.

As a national high-tech enterprise, Risen Energy possesses multiple core technologies in its main business and has established a national photovoltaic (PV) laboratory accredited by the international CNAS, capable of conducting testing for 54 projects based on international standards such as IEC 61215 and UL 1703. The establishment of the Photovoltaic Research Institute in November 2023 marks an important step in the company’s strategic development. It is primarily responsible for integrated technology research, product development and iteration, and technical management, and is committed to providing the lowest carbon PV solutions and building a global efficient PV R&D and innovation center, to strengthen the company’s technical support and consolidate its competitive position through products and technology. The company will leverage this institute as a platform for global exchange and cooperation, to make the PV technology universally known and applied across the globe, thereby laying a solid foundation for meeting the vision - “Risen with the World for Ages”.

Vision

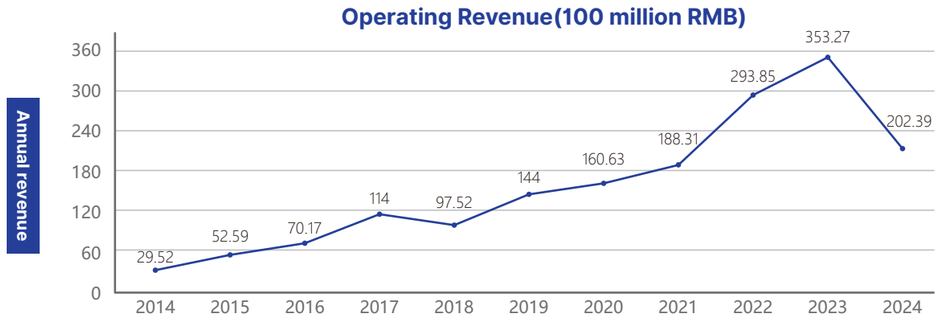
Creating a new life for mankind through green new energy.

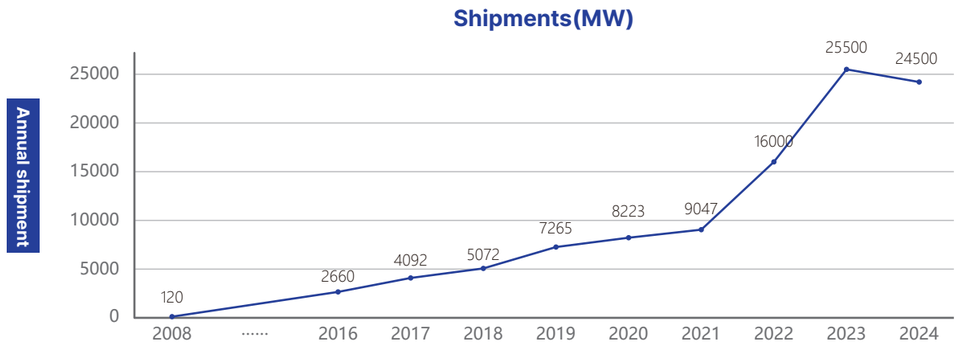
Service

Customer-centered, providing value through service.

Mission

Continuously improving the energy pattern with technological innovation and the quality of human life.





Company Capability

Tier 1
PV module manufacturer

23 years
PV manufacturing experience (2002-2025)

48GW+
Modules capacity in 2025

114.5GW+
Cumulative shipment volume (by Q2 2025)

90+
Countries and regions

15000+
Employees worldwide

Product Certification

Comprehensive product and system certifications

IEC61215:2016; IEC61730-1/-2:2016

ISO 9001: 2015 quality management system

ISO 14001: 2015 environmental management system

ISO 45001: 2018 occupational health and safety management system

ISO 14064 greenhouse gas emission verification

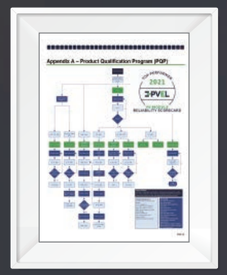
ISO9001
ISO14001
ISO45001
IEC62941

Italy EPD

Certisolis Carbon Footprint

3X IEC

Solar Congress



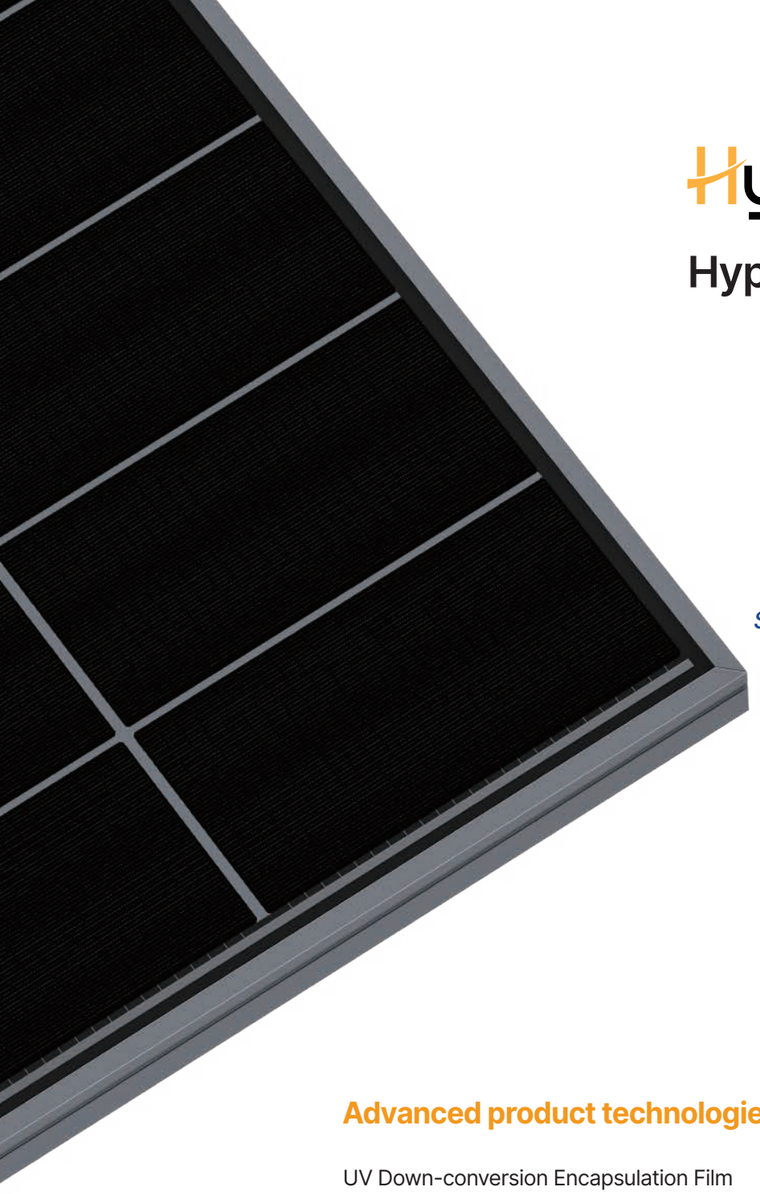
PQP

EUPD

Product Warranty

Product series	Product warranty	Power warranty	First-year degradation	Annual degradation
Hyper-ion Pro	15 years	30 years	1%	0.3%
TOPCon	conventional products: 15 years all-black products: 25 years	30 years	1%	0.4%

Contents



Hyper-ion Pro

Hyper-ion Pro Series >>>

Higher bifacial factor
90%±5%

Stable temperature coefficient of pmax
-0.24%/°C

Outstanding power retention rate
≥90% in 30 years

Ultra-low carbon footprint
<376.5kg eq CO_2/kWc

Advanced product technologies

UV Down-conversion Encapsulation Film

High-Mobility Target Material

Stencil Screen Printing

First to mass-produce the 0BB solar cell
First to mass-produce the ultra-thin solar cell
First to adopt low-silver metallization materials in mass production
First to adopt Hyper-link technology in mass production

Hyper-ion Pro 745Wp+

RSM132-8-720-745BHDG

132 cells
n-Type HJT Module

720-745Wp
Module Power

24.0%
Module Efficiency

2384×1303×33mm
Module Dimensions

37.5kg
Module Weight

Solar cells	*n*-type HJT
Cell configuration	132 cells(6x11+6x11)
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Pmax	-0.24%/°C
Maximum System Voltage	1500VDC

Bloomberg TIER 1 — Global top Tier1 PV module manufacturer

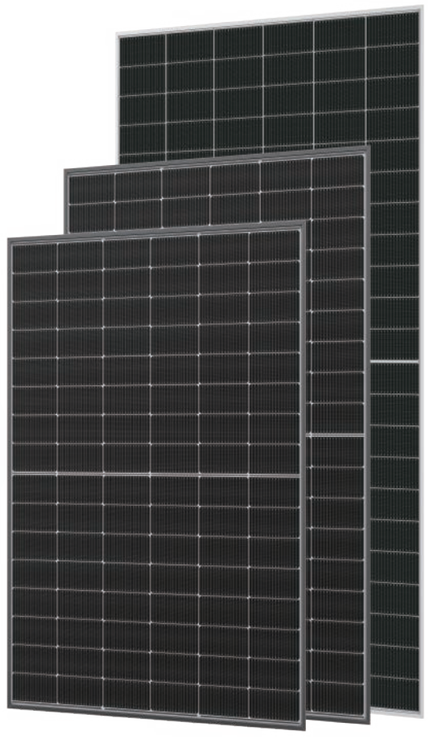
LID — n-type cells with no B-O LID, first-year power degradation not exceeding 1%

Outstanding low-temperature coefficient

Bifacial — Bifacial power generation technology provides additional power gain on the backside (up to 30%)

Higher power generation

TOPCon Series >>



Advanced product technologies

High-density encapsulation technology

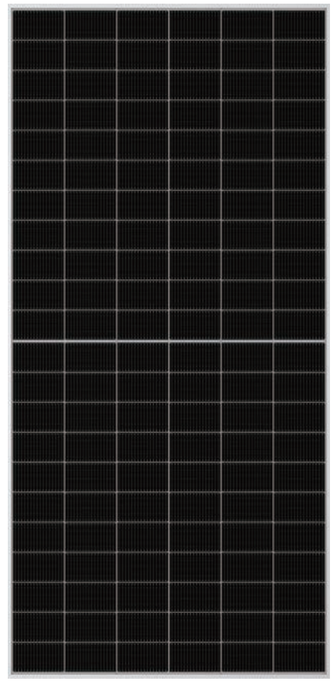
Non-destructive cutting technology

Better internal resistance design

SMBB technology

TOPCon 630Wp+

RSM132-11-605-630BNDG



132 cells
n-type TOPCon Module

605-630Wp
Module Power

23.3%
Module Efficiency

2382×1134×30mm
Module Dimensions

32.5kg
Module Weight

Solar cells	*n*-type TOPCon
Cell configuration	132 cells(6x11+6x11)
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Maximum System Voltage	1500VDC

Bloomberg TIER 1 — Global top Tier1 PV module manufacturer

LID — n-type cells with no B-O LID, first-year power degradation not exceeding 1%

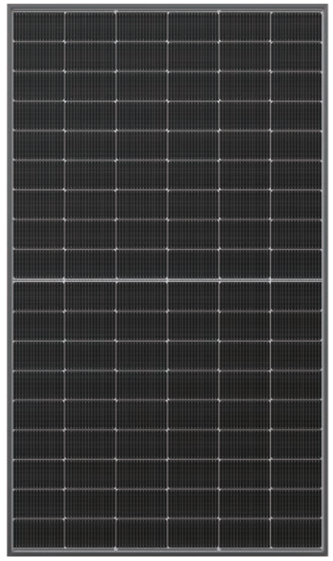
Excellent temperature coefficient

Bifacial — Bifacial power generation technology provides additional power gain on the backside (up to 30%)

Excellent weak-light performance

TOPCon 515Wp+

RSM108-11-490-515BNDG



108 cells
n-type TOPCon Module

490-515Wp
Module Power

23.2%
Module Efficiency

1961×1134×30mm
Module Dimensions

27.0kg
Module Weight

Solar cells	*n*-type TOPCon
Cell configuration	108 cells(6x9+6x9)
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Maximum System Voltage	1500VDC

Global top Tier1 PV module manufacturer

n-type cells with no B-O LID, first-year power degradation not exceeding 1%

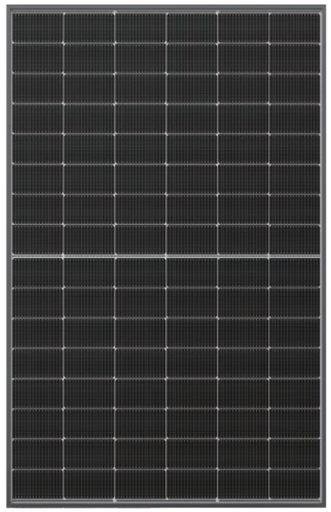
Excellent temperature coefficient

Bifacial power generation technology provides additional power gain on the backside (up to 30%)

Excellent weak-light performance

TOPCon 460Wp+

RSM96-11-440-460BNDG



96 cells
n-type TOPCon Module

440-460Wp
Module Power

23.0%
Module Efficiency

1762×1134×30mm
Module Dimensions

21.5kg
Module Weight

Solar cells	*n*-type TOPCon
Cell configuration	96 cells(6x8+6x8)
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Maximum System Voltage	1500VDC

Global top Tier1 PV module manufacturer

n-type cells with no B-O LID, first-year power degradation not exceeding 1%

Excellent temperature coefficient

Higher power generation

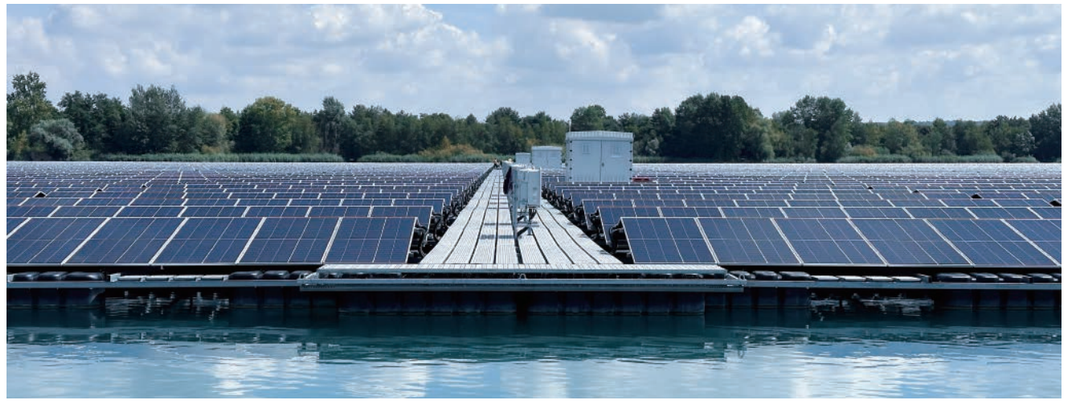
Excellent weak-light performance

PV Projects

Continuously improve the energy layout and enhance the human life quality with scientific and technological innovations

Korea
Completed: 2024

5.3MW



Germany
Completed: 2024

15MW

Qinghai, China
Completed: 2024

22MW

Australia
Completed: 2020

100MW

Rio de Janeiro, Brazil
Completed: 2023

6.8MW

Tianjin, China
Completed: 2024

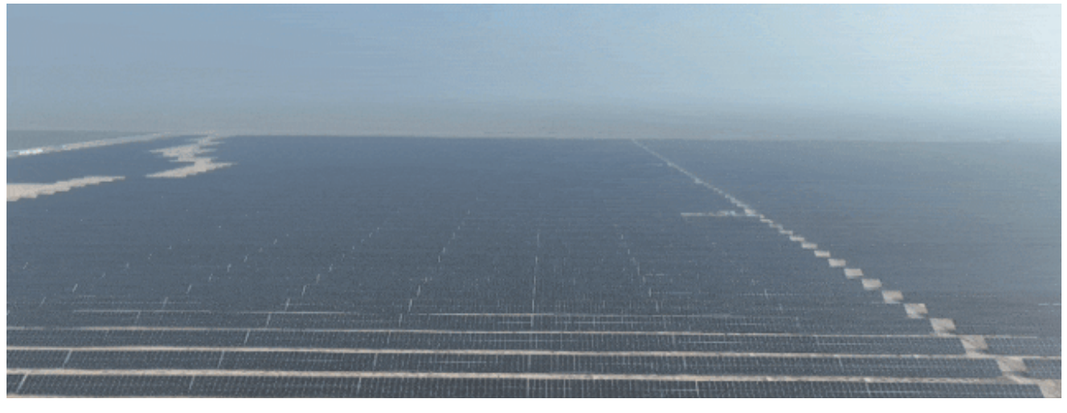
120MW

shanxi, China
Completed: 2023

115MW

Guizhou, China
Completed: 2023

269MW



Xinjiang, China
Completed: 2023

600MW