



SEG Solar Inc.

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A LEADING US SOLAR MODULE MANUFACTURER WITH A FULLY INTEGRATED SUPPLY CHAIN

www.segsolar.com



Solar. Energy. Generation.



SEG SOLAR
BORN AND RAISED IN THE USA

VISION

Creating a sustainable future for the next generation.

MISSION

Committed to establishing a clean and sustainable photovoltaic industry supply chain in America, driving efforts towards energy independence while empowering nations worldwide to make a positive impact on the planet.

Who We Are

U.S.-owned company

100%

Founded in

2021

Global headquarters in

HOUSTON, TEXAS



ABOUT SEG SOLAR

Founded in 2021 and headquartered in Houston, Texas, SEG Solar is a U.S. manufacturer with a fully integrated supply chain that is internationally recognized for producing high-quality solar modules. SEG Solar is dedicated to delivering reliable and cost-effective solar panels globally to utility, commercial, and residential markets. SEG Solar has been honored as a Top Performer by Kiwa PVEL for five consecutive years and has earned a Silver Medal in the EcoVadis CSR rating, while also being recognized as a Grade A Solar Module Manufacturer by Wood Mackenzie and awarded the Top Innovation Modules by EUPD.

With a module production capacity of over 6.5GW, SEG Solar operates several global manufacturing bases strategically located in the USA and Indonesia. This underscores our commitment to strengthening the global photovoltaic industry's supply chain and promoting energy independence. By the end of 2025, SEG Solar had shipped over 7.5GW of solar modules worldwide.

5 MANUFACTURING BASES

United States (3), Indonesia, Philippines

7.5GW+

Global Cumulative
Module Shipments

6.5GW

Module Capacity

5GW

Cell Capacity

HONORS LIST



COMPANY MILESTONES

2023

Houston Global HQ
 BNEF Tier 1 List
 40-Hectare Land Lease with Indonesian Government
 EcoVadis Silver Medal
 Kiwa PVEL Top Performer



2025

First N-Type Cell Roll-Off at 5GW Indonesia Facility
 3GW Ingot & Wafer Production Facility
 BNEF Tier 1 List
 Wood Mackenzie Grade A Module Manufacturer
 Kiwa PVEL Top Performer
 Top 10 Panel Brand by SolarReviews
 Top Innovation Modules Award by EUPD
 Very Good in PV Magazine Testing
 166MW Project in Oregon, USA
 124MW Project in Texas, USA



2024

Indonesia PV Industrial Park
 2GW Module Factory in Houston
 First N-Type Module Shipment
 Kiwa PVEL Top Performer
 220MW Project in Oregon, USA



2026

4GW Tomball Factory Grand Opening
 Indonesia R&D Center Launch
 5GW Ingot & Wafer Factory Commences Production
 Energy Storage Division Established
 Kiwa PVEL Top Performer



2021-2022

Founded in Houston, Texas
 2GW Module Shipment to US and Europe
 Kiwa PVEL Top Performer
 60MW Project in Florida, USA



GLOBAL LAYOUT

U.S. Manufacturing Base
California, USA



SEG Headquarters & Manufacturing Bases



Houston, Texas, USA



Tomball, Texas, USA

Spain Sales Center
Madrid, Spain



Singapore Operations Center
Singapore



Philippines Manufacturing Base
Cebu, Philippines

Indonesia Operations Center & Manufacturing Base
Central Java, Indonesia



5 MANUFACTURING BASES

4 GLOBAL OFFICES

-  **Global Headquarters**
-  **Office**
-  **Manufacturing Base**

GLOBAL PARTNERS

Your Loyal and Trustworthy
Business Partner

50+
Financial Partners



100+
Business Partners



World-Class Manufacturing

Our advanced manufacturing facilities and dedicated R&D team ensure that our modules are at the forefront of technology.



PRODUCTION LINE

100%

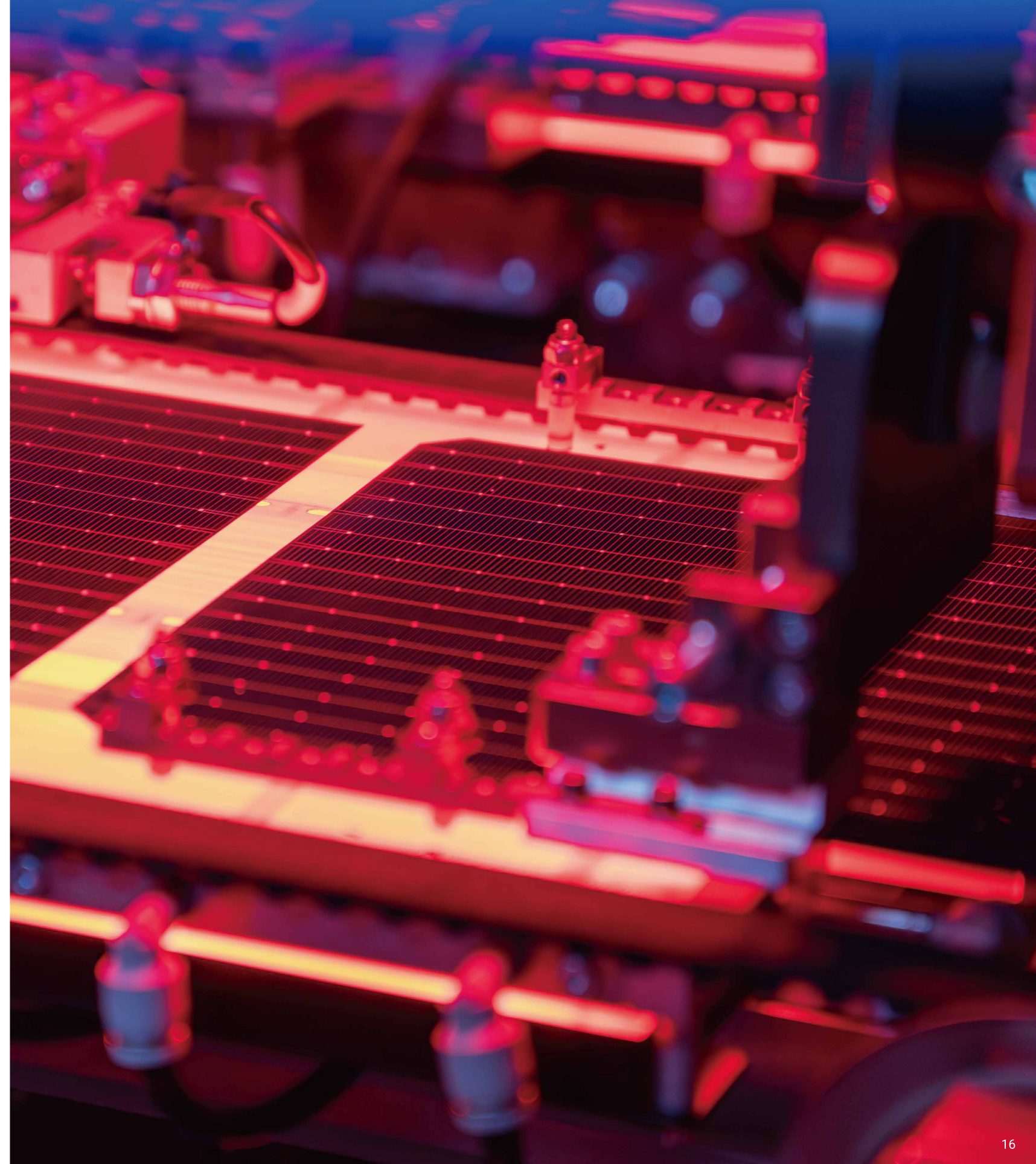
Automation production line from loading the glass, string solar cell, function test to end product.

The Best

SEG Solar operates the world's fastest stringers, largest laminator, most extensive curing line, largest single sorting machine, and latest testing equipment.

20BB

Capable to produce 166mm,182mm and 210mm solar cell and with max of 20 BusBar.





GLOBAL R&D CENTER

Innovation Driven

SEG is establishing a cutting-edge R&D and Testing Center in the USA, equipped with over 20 advanced devices. This state-of-the-art facility will ensure the production of top-quality photovoltaic products and drive technological innovation. With plans for continuous expansion and upgrades, SEG aims to create the most comprehensive and advanced R&D testing hub in North America, solidifying our position as a global leader in the photovoltaic industry.

- LID Test
- Wet Leakage Current Test
- Insulation Test
- Peel Test
- Cross-Linking Test
- Damp Heat Test
- Thermal Cycling Test
- Humidity Freeze Test
- PID Test
- LeTID Test



INTELLIGENT MANUFACTURING MANAGEMENT

ORACLE NETSUITE ERP & HULI MES SYSTEM

This system ensures robust quality assurance and traceability for module production through seamless integration. It enables real-time monitoring, automatic data collection, and anomaly detection during production. Furthermore, it provides detailed records and traceability for the entire production lifecycle, from raw materials to finished products.

AUTOMATION
INTELLIGENCE
INFORMATION

QUALITY MANAGEMENT

- **Quality System Management**

ISO9001 ISO14001 ISO45001

- **Whole Process Quality Control**

Strict Incoming-material Inspection Standards

100%
Batch Inspection

300+
Quality Inspection Procedures

4X100%
EL Testing

OBA
Open Box Audit Test

- **Extended Warranty Commitment**

15-30YEARS
Product Warranty

25-30YEARS
Performance Warranty



Authoritative Certification and Testing



CUSTOMER SERVICE

Local Service and Quick Response

- **USA Based Company**
- **Life-Cycle Services**
- **Low Warranty Claim Rate**

SEG has a rapid response system to solve any customer pre-sales and after-sales concerns in a timely and efficient manner, and the local office provides multi-dimensional professional support.



Marketing
Support



Technology
Support

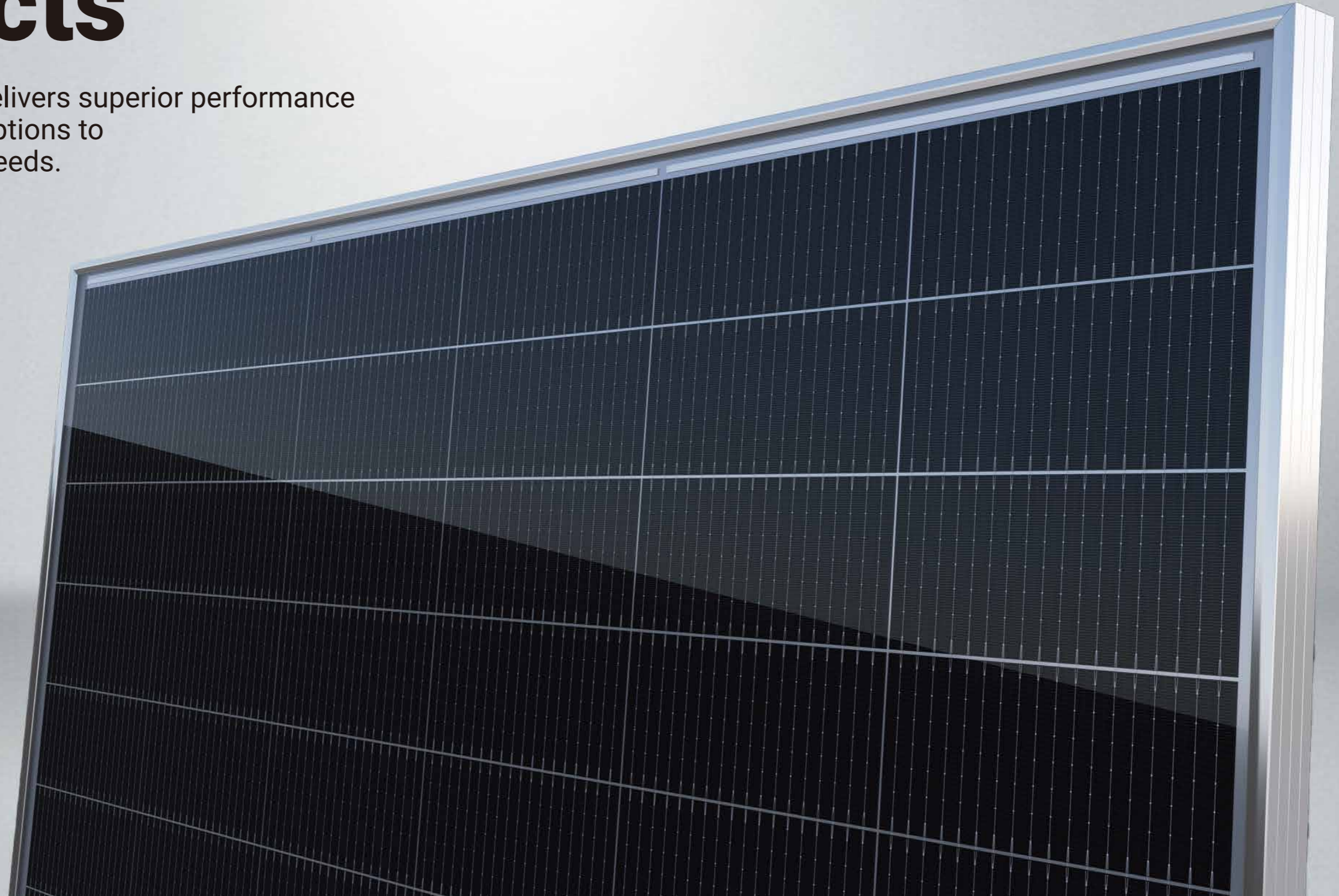


Financing
Consultation



Our Innovative Products

Our N-type modules delivers superior performance with a wide range of options to meet unique energy needs.



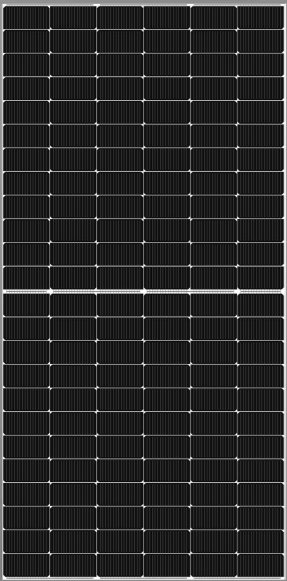
PRODUCT SERIES

YUKON N SERIES

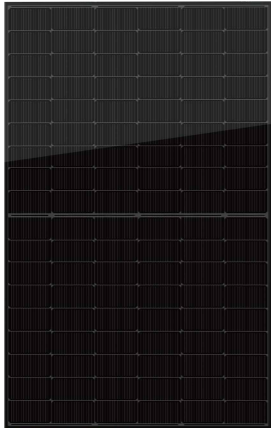
Advanced N-Type PV Module

650W
Max Power

23.25%
Max Efficiency



BIFACIAL
SEG-(485-500)-BTB
SEG-(585-600)-BTA
SEG-(625-650)-BTZ



BLACK DIAMOND
SEG-(435-450)-BTD



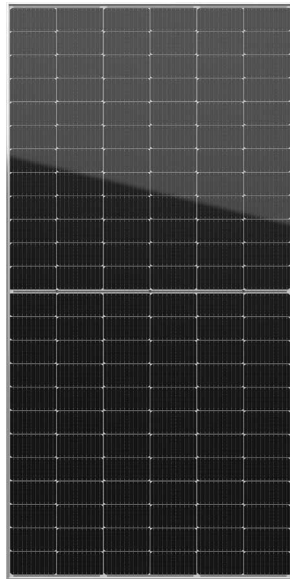
PRODUCT SERIES

YUKON SERIES

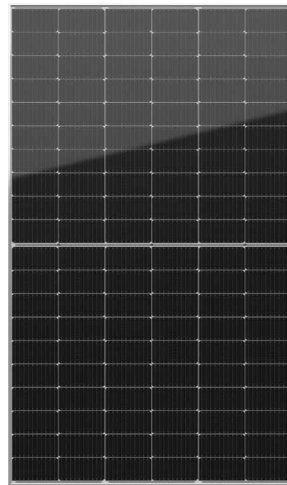
Efficient and Reliable

560W
Max Power

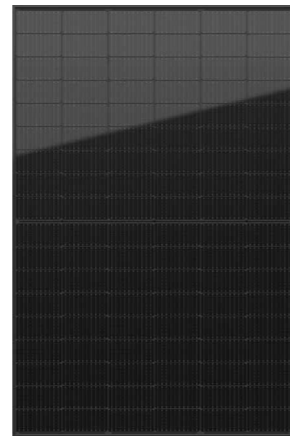
21.68%
Max Efficiency



BIFACIAL
SEG-(540-560)-BMA



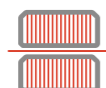
**TRANSPARENT
BACKSHEET**
SEG-(445-460)-BMB



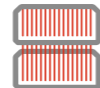
**BLACK
DIAMOND**
SEG-(400-415)-BMD



PERC



**Half Cut
Technology**



MBB



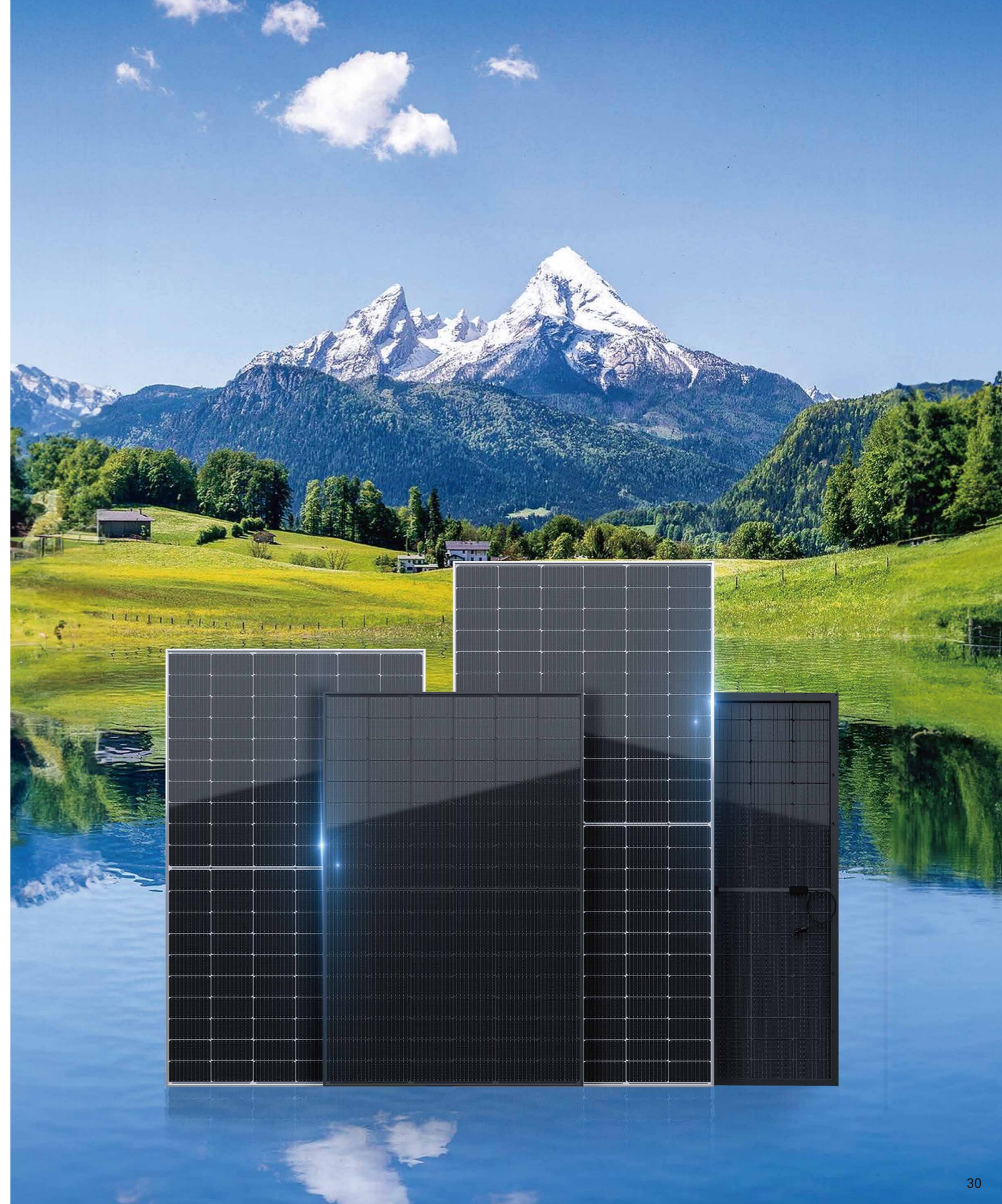
Prime Models
108/120/144



**25-30 Year
Performance Warranty**



**15-30 Year
Product Warranty**



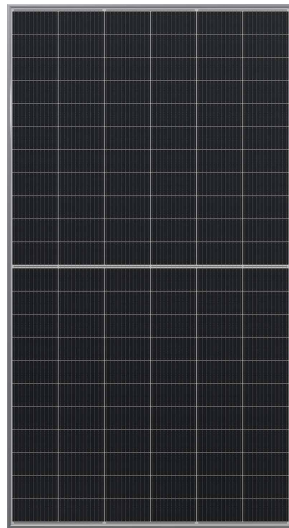
PRODUCT SERIES

ALPINE N SERIES

Aiming for the Lowest LCOE

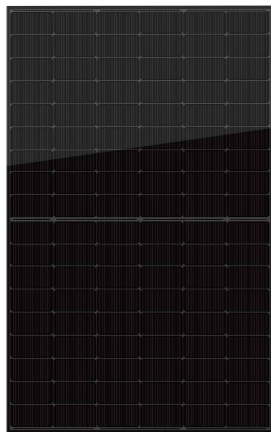
725W
Max Power

23.34%
Max Efficiency



BIFACIAL

SEG-(600-630)-BTC
SEG-(700-725)-BTC



BLACK DIAMOND

SEG-(435-450)-BTE
SEG-(495-510)-BTD



SEVERE STORM PROTECTION

SEG-(600-630)-BTC



N-Type



Half Cut
Technology



SMBB



Prime Models
96/108/132



30 Year
Performance Warranty



15-30 Year
Product Warranty



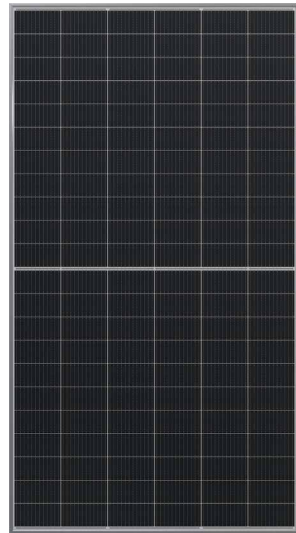
PRODUCT SERIES

ALPINE SERIES

Larger for Higher Goals

670W
Max Power

21.57%
Max Efficiency



BIFACIAL

SEG-(595-610)-BMB
SEG-(655-670)-BMC

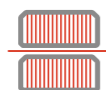


MONOFACIAL

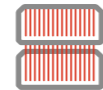
SEG-(595-610)-BMB
SEG-(655-670)-BMC



PERC



Half Cut
Technology



MBB



Prime Models
120/132



25-30 Year
Performance Warranty



15 Year
Product Warranty

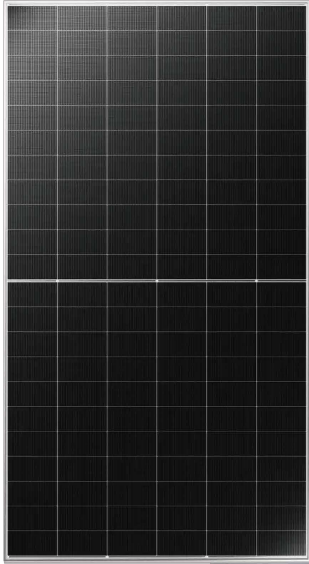


PRODUCT SERIES

SIERRA N Series

Climb to Hybrid Energy

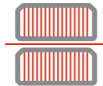
745W | **23.98%**
Max Power | Max Efficiency



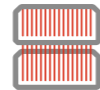
BIFACIAL
SEG-(730-745)-BHC



HJT



Half Cut
Technology



SMBB



Prime Models
132



30 Year
Performance Warranty



15 Year
Product Warranty



Sustainable Solutions For All

SEG's high-efficiency modules offer versatile solutions for diverse applications, powering communities across the world.





REPRESENTATIVE PROJECTS

Sharing Our Leaps Forwards
On A Green Future

- **Utility**
- **C&I**
- **Residential**

REPRESENTATIVE PROJECTS

220.00MW

 *Oregon, USA*

 *Utility*

REPRESENTATIVE PROJECTS



166.00MW

 Oregon, USA

 Utility

REPRESENTATIVE PROJECTS



60.00MW

📍 Florida, USA
⚡ Utility



23.84MW

📍 Pennsylvania, USA
⚡ Utility



14.20MW

📍 Oregon, USA
⚡ Utility



14.10MW

📍 Oregon, USA
⚡ Utility

REPRESENTATIVE PROJECTS



REPRESENTATIVE PROJECTS



REPRESENTATIVE PROJECTS



Shine For Everyone

SEG has successfully managed to consistently decrease its environmental footprint.



RESPONSIBLE SOLAR

Empowering communities, fostering economic growth, and paving the way for a greener, brighter future.

Social Responsibility

2021 **158.55 acres** land conservation in Marion County, Tennessee

2022 **193.82 acres** land conservation in Chester County, South Carolina



SA8000

Low-Carbon Efforts*



28,485,000,000 pounds
Total Carbon Dioxide Emissions Reduction



13,500,000,000 kWh
Total Electricity Conservation



33,750,000,000 gallons
Total Water Savings

*With reference to PV module shipments data up to 2025.

RESPONSIBLE SOLAR

By partnering with our community, we amplify the impact of solar power, inspiring more people to embrace a sustainable lifestyle.

Sponsor Educational Activities For Youth

- USA Badminton Association (ABC)
- Community Youth FTC Robotics Team
- Copeland Elementary's Bubble Run
- Diamond Dreams 8U Softball Team
- Annual Smith Middle School Color Run (2024-2025)
- Cypress United High School Lacrosse Club
- 14U Fall Baseball Team

Community Development

- APAPA National Unity Awards Gala (2022-2023)
- 10kW Solar Panel Donation for Refuge for Women of North Texas
- US Pan Asian American Chamber of Commerce Education Foundation (USPAACC) Certification
- Community Blood Drive with Cy-Fair Fire Department (2025-2026)
- Annual Buddy Walk by the Down Syndrome Association of Houston

Local Government

- Houston Northwest Chamber of Commerce



Multicultural & Employee Empowerment

- **100+** Hours training per employee
- **44.6%** Female employees percentage
- **1000+** Local job opportunities provided
- **5000+** Direct and indirect global job opportunities provided

