

# INDIA'S

## NEW GENERATION

### MODULE MANUFACTURER



POWERING A  
BRIGHTER FUTURE

**SAHJANAND**  
— SOLAR —

 [www.sahjanandsolar.com](http://www.sahjanandsolar.com)



The background of the top half of the page features a vibrant sunset sky in shades of orange and yellow. In the foreground, there are several rows of solar panels tilted towards the viewer. Behind the solar panels, four wind turbines are visible, their blades extending into the sky. The overall scene represents a clean, sustainable energy landscape.

# SAHJANAND

— S O L A R —

## ABOUT COMPANY

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At Sahjanand Solar, we pride ourselves on offering a diverse range of products, all manufactured in our state-of-the-art, fully automated production facility. Equipped with advanced robotics, our plant ensures efficient and precise module manufacturing. By sourcing only the highest quality materials, we produce solar modules that set the benchmark for flexibility, efficiency, and cost-effectiveness.

Our commitment to excellence is reflected in our rigorous production planning and cutting-edge motion control technology, enabling us to achieve rapid cycle times and maximize output. With an impressive production capacity of 600 MW annually, Sahjanand Solar delivers superior solar modules that consistently meet the highest standards of quality and performance. Our relentless pursuit of innovation ensures that we remain at the forefront of the solar industry, providing sustainable energy solutions for a brighter future.



## OUR VISION

Pioneering a sustainable future by making clean, affordable solar energy accessible to all.

## OUR MISSION

Innovation solar technology to deliver high-quality, efficient modules that meet the evolving needs of our customers and contribute to a sustainable future.



## VALUE

### Respect

Embracing diversity and fostering a collaborative culture of respect for all.

### Ethics

Conduction business with integrity, transparency, and fairness.

### Commitment

Driving innovation and delivering sustainable energy solutions with unwavering dedication.

### Quality

Delivering exception solar products service that exceed customer expectation.

### Loyalty

Building enduring partnerships based on trust, reliability, and outstanding service.



# Manufacturing Excellence

Precision, Innovation, and Quality in Every Solar Panel We Build



## Our Commitment to Quality

At Sahjanand Solar, manufacturing excellence is at the heart of everything we do. We are committed to producing high-quality solar modules using cutting-edge technology and rigorous quality control processes. Our fully automated, state-of-the-art production facility ensures that every panel meets the highest international standards for performance, durability, and efficiency.



## Advanced Manufacturing Technology

### State-of-the-Art Machinery for World-Class Solar Modules

We pride ourselves on our advanced, fully automated production line, which minimizes human error and maximizes precision. Here's an overview of the key machinery we use:

#### Stinger Machine:

Used for high-precision stringing, ensuring perfect alignment and optimal electrical connectivity for maximum efficiency.

#### Auto Gantry Machine:

A fully automated system that enhances speed and accuracy in the production process, contributing to consistent quality across all solar modules.

#### EL Testing Machine:

Our EL testing equipment detects micro-cracks and defects in the cells before they become part of the final module, ensuring only the highest quality products leave our factory.



## Precision and Automation

### Fully Automated Production Line for Unmatched Accuracy

At Sahjanand Solar, we utilize a completely automated production process to guarantee uniformity and accuracy across all our solar modules. This not only boosts production speed but also reduces the chances of errors, ensuring that every product leaving our factory performs to its fullest potential.

**Zero Defects:** Thanks to automated precision in every step of the process.

**High Output:** Our production line can manufacture up to 600 MW of solar modules annually, ensuring a steady supply for large-scale projects.

## Quality Control & Testing

### Uncompromising Quality Standards

We believe that quality is non-negotiable. Our multi-stage quality control process includes rigorous testing at every phase of production, ensuring that every panel we produce meets our stringent quality criteria.

**Electroluminescence (EL) Testing:** Detects any hidden defects or micro-cracks in cells before they are integrated into panels.

**Flash Testing:** Measures the electrical performance of each panel to ensure it meets the efficiency standards.

**Durability Testing:** Our modules undergo environmental simulations, including wind, hail, and UV exposure tests, to ensure they can withstand harsh conditions.

## Certifications and Standards

### Uncompromising Quality Standards

We believe that quality is non-negotiable. Our multi-stage quality control process includes rigorous testing at every phase of production, ensuring that every panel we produce meets our stringent quality criteria.

### Globally Recognized Standards

Our solar modules are certified by international and national bodies, including BIS and ALMM, ensuring that our products meet the highest standards of quality and reliability.

**ISO Certified Facility:** Adhering to the most stringent production protocols.

- ISO 9001:2015 Quality Management
- ISO 14001:2015 Environmental Management System
- ISO 45001:2018 Occupational health & safety Management Systems

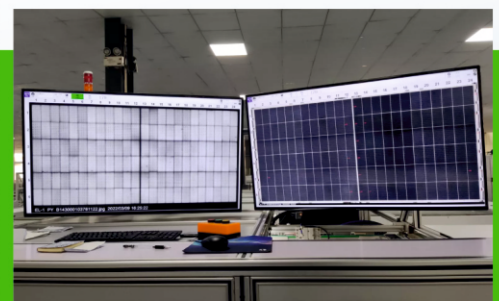
**BIS Certification:** Ensuring product compliance with national safety and performance standards.

- IS 14286/IEC 61215 - Design Qualification & Type Approval
- IS/IEC 61730/1 - Requirement for Construction
- IS/IEC 61730/2 - Requirement for Testing

**ALMM Listing:** Approved for government solar projects in India.

## Join the Future of Solar Manufacturing

Sahjanand Solar's dedication to manufacturing excellence ensures that our customers receive the most efficient, durable, and reliable solar panels on the market. We are continually innovating to stay at the forefront of the solar energy revolution.



### Residential Rooftop Installations:

Solar panels are commonly installed on the rooftops of homes to generate electricity, reducing utility bills and promoting energy independence.



### Commercial and Industrial Buildings:

Large-scale solar installations on commercial and industrial buildings help reduce operational costs by powering factories, offices, and warehouses with clean energy.



### Utility-Scale Solar Farms:

Solar modules are used in large fields of panels to produce electricity for the grid, contributing to regional or national energy supplies.



### Agricultural Applications:

Farmers use solar energy to power irrigation systems, greenhouses, and farm equipment, reducing reliance on conventional power sources.



### Solar-Powered Street Lighting:

Solar modules can be integrated into street lighting systems, providing a sustainable, cost-effective solution for illuminating roads and public spaces.



USE OF  
OUR PRODUCT



### Remote Area Electrification:

In off-grid areas, solar modules provide electricity for homes, schools, and hospitals, enabling communities without access to traditional electricity grids to power essential services.



### Electric Vehicle (EV) Charging Stations:

Solar modules are used to power EV charging stations, providing clean energy for electric vehicles and reducing reliance on fossil fuels.



### Water Pumping Systems:

Solar-powered water pumps are widely used in rural and remote areas for agricultural irrigation and drinking water supply systems.



### Telecommunication Towers:

Solar modules provide reliable power to remote telecom towers and equipment, ensuring consistent connectivity in hard-to-reach areas.

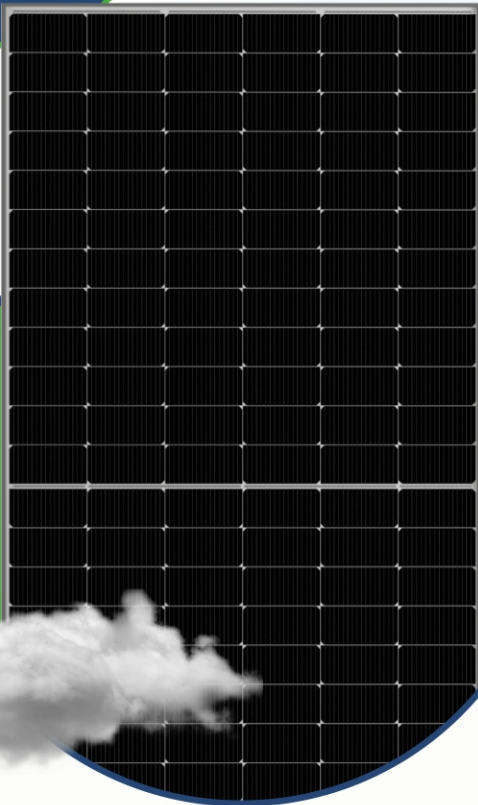


### Emergency Backup Power:

Solar modules are used in conjunction with battery storage systems to provide backup power during outages or emergencies, ensuring critical systems remain operational.



Module Efficiency up to **23.24 %**



## N-TYPE TOPCON HalfCut Bifacial

560 Wp - 600 Wp  
TOPCON 16BB



Low Degradation Rate

Extra Up To 30 % Power Generation

Outstanding Low-light Performance

Superior Temperature Co-efficient

Higher Power Density

Reduced Levelized Cost of Energy(LCOE)

SMBB (Super Multi BusBar) Technology

  
**TECHNICAL  
FEATURES**



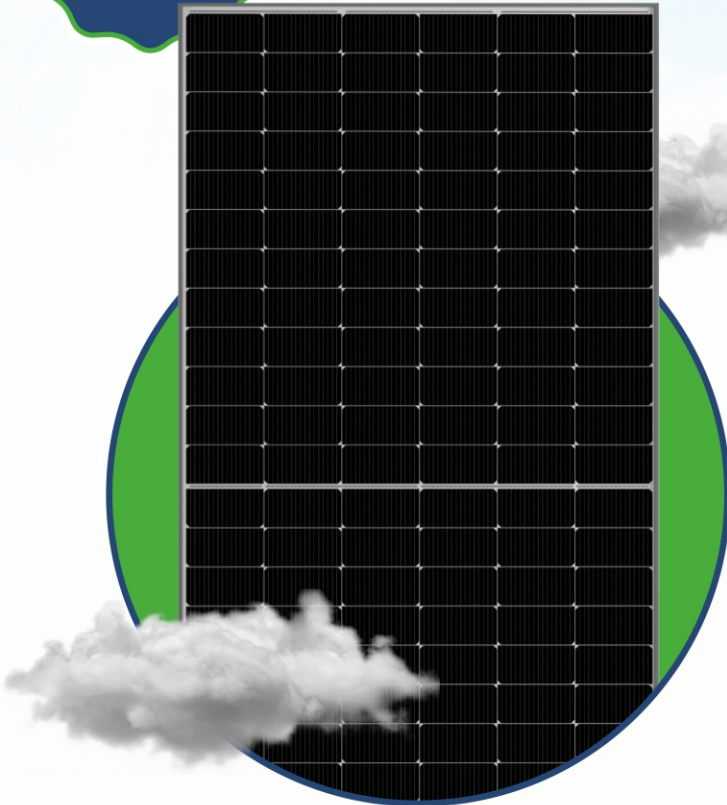
# SAHJANAND

— S O L A R —

Module  
Efficiency up to  
**21.49 %**

## MonoPERC HalfCut Bifacial

525 Wp - 555 Wp  
MonoPERC 10BB



**30** Year  
Performance Warranty

**12** Year  
Product Warranty

Durability & Longevity

Better Performance in Diffused light



Lower LCOE(Levelized Cost of Energy)

Optimized for Vertical & Horizontal Installation

MBB (Multi BusBar) Technology

## Overview

Sahjanand Solar is a key player in India's solar energy industry, committed to changing the country's energy landscape. With a cutting-edge production facility that has an annual capacity of 600 MW, we aim to make a significant impact on India's ambitious solar energy targets. Our modern, fully automated plant is equipped with advanced robotics and motion control technology, which ensures that our solar modules are of the highest quality, efficiency, and innovation. Sahjanand Solar is a key player in India's solar energy industry, committed to changing the country's energy landscape. With a cutting-edge production facility that has an annual capacity of 600 MW, we aim to make a significant impact on India's ambitious solar energy targets. Our modern, fully automated plant is equipped with advanced robotics and motion control technology, which ensures that our solar modules are of the highest quality, efficiency, and innovation.



## India's Current Solar Production and Demand

India is quickly becoming a global leader in solar energy, driven by the need to reduce carbon emissions and meet growing energy demands. Currently, India has about 89.40 GW of installed solar capacity. The demand for solar energy continues to grow, thanks to the country's commitment to sustainable development and the decreasing costs of solar technology. With plenty of sunshine, especially in high solar insolation areas, India has a great opportunity to use solar power to meet its energy needs.

## The Carbon Footprint Challenge

India's carbon footprint is a major concern, as a large portion of its electricity still comes from fossil fuels. The country emits roughly 2.88 billion metric tons of CO<sub>2</sub> each year, making it one of the largest carbon emitters in the world. However, India has set ambitious goals to reduce its carbon footprint by increasing the use of renewable energy sources and reducing greenhouse gas emissions.

## India's 2030 Solar Energy Targets

By 2030, India plans to have 500 GW of renewable energy capacity, with solar power playing a key role. The goal is to reach around 280 GW of solar capacity, showing the government's strong commitment to sustainable energy. Additionally, India has promised to cut its carbon emissions intensity by 33-35% from 2005 levels as part of its commitments under the Paris Agreement.

# Sahjanand Solar's Role in Achieving India's Goals

Sahjanand Solar is dedicated to helping India achieve a cleaner and greener future. By expanding our production capacity and continuously improving our manufacturing processes, we are well-positioned to support India's solar energy goals. Our advanced production facility allows us to create high-quality, affordable solar modules that meet the growing demand for reliable renewable energy.

We are committed to reducing carbon emissions by providing efficient solar energy solutions that can replace traditional fossil fuel-based electricity. By using premium materials and advanced technology, our solar modules are designed to be both effective and environmentally friendly.

## Driving Innovation and Sustainability

Innovation is central to Sahjanand Solar's mission. We invest in research and development to improve the efficiency and performance of our solar modules. Our commitment to sustainability goes beyond our products to our production processes, which are designed to reduce waste and energy use.



# SAHJANAND

— SOLAR —



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