

WAAREE®

One with the Sun



ACCELERATING GLOBAL ENERGY TRANSITION



For more information visit: www.waaree.com

From the chairman's desk

Dear Friends,

Greetings from Waaree!

Waaree is a shining testament to India's energy transition, serving as the country's premier renewable energy company, and a global frontrunner in driving the transition through fully integrated new energy solutions. At the heart of Waaree's ethos lies in an unyielding commitment to furnishing high-quality solar solutions that diminish reliance on non-renewable energy sources while illuminating the path to a cleaner, more sustainable future.

The global community is collectively engaged in a crucial effort to mitigate the impact of climate change, a crisis caused in large part by generations of fossil fuel usage. As the world works towards achieving Net-Zero emissions in the decades ahead, the adoption of clean, renewable energy sources will be essential to fulfilling this objective.

Bolstered by a Solar Module manufacturing capacity of ~15 GW and 5.4 GW of Cell manufacturing capacity. The progressive stride of India's Atmanirbhar Bharat initiative, we remain unwavering in our pursuit to expand our manufacturing capabilities. We count a passion for excellence, and a customer-first approach among our core values. We are poised to introduce an expanded array of products and services that deliver unwavering value to our cherished customers and stakeholders. To date, Waaree's contributions affirm our role as India's largest solar module exporter, catalyzing positive transformation on a global scale.

Waaree shines as a top performer in Kiwa PVEL's 2024 PV Module Reliability Scorecard, marking its third consecutive recognition. As the only Indian company to pass all six rigorous tests, including power degradation, wet leakage, and energy yield simulations, Waaree's modules stand out for their unmatched durability and reliability. Additionally, Waaree is recognized in the RETC PV Module Index Report 2024, where we were named the "Highest Achiever" across performance, reliability and quality test categories, solidifying our position as the only Indian company to receive this prestigious honor. Waaree endorses exceptional product reliability and trustworthiness. In a league of our own, Waaree's in-house reliability lab, designed for 3X IEC extended testing, is the first such lab in India to be accredited by NABL. We are proud to announce that Waaree Energies Limited has become the first Indian solar PV module manufacturer to receive an 'A' category rating in PV tech's ModuleTech Bankability Ratings. This recognition highlights our financial strength, operational stability and technological leadership.

Our commitment to innovation, research, and development fuels our mission to forge groundbreaking products that fuse efficiency, unmatched performance, and value. This ethos drives the addition of Next Generation technology products to our repertoire, including N-Type, Bi-facial Solar Panels, HJT Solar Panels, and high-power solar modules scaling up to 730Wp. Moreover, in keeping with our unwavering focus on pioneering technologies, we have forayed into the hydrogen sector with a focus on green hydrogen production. Our Green Hydrogen initiative involves state-of-the-art production facilities aimed at reducing carbon emissions and supporting global sustainability goals.

In addition to these achievements, Waaree is expanding its offerings to include cutting-edge Battery Energy Storage Systems (BESS). Our BESS solutions range from residential to commercial and utility-scale applications, providing end-to-end solutions, including energy power stations and customized systems.

We believe that the future of retail lies in embracing the power of e-commerce and adopting an Omni-Channel approach. The rising prominence of online platforms presents us with incredible opportunities to reach and engage with a wider consumer base. Our commitment to embracing e-commerce reflects our dedication to innovation and staying ahead in the ever-changing retail landscape. Waaree Group is thrilled to announce its new presence in Houston, Texas. This expansion reflects our vision of democratizing solar energy even in the remotest corners of our nation and globally, supported by our continued commitment to both solar and energy storage solutions.

Together, we embark on a collective mission to forge a greener, cleaner planet through solar energy, a legacy that transcends time. Join us in this green odyssey to weave a fabric of environmental change that resonates for generations to come.

Accelerating Global Energy Transition

Dr. Hitesh Doshi

Chairman & Managing Director, Waaree Group

Vision

Our vision is to provide high quality and cost-effective solar power across emerging markets, reducing carbon footprints and paving the way for a more sustainable energy future, thereby improving the quality of human life.

Mission

By virtue of our commitment to our stakeholders, we strive for continual improvement in the quality of our products & services.

Core Values



Vertically Integrated Manufacturing Facility Globally

~15GW Solar Module Manufacturing

1.6GW Solar Module Manufacturing in US

6GW* Ingot Manufacturing
*Expansion Plan

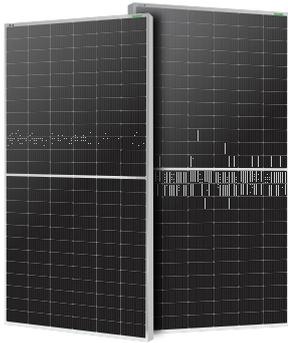
6GW* Wafer Manufacturing
*Expansion Plan

5.4GW Solar Cell Manufacturing

Scan to watch our Corporate AV



Business Interest



Solar Module

3Wp to 730+ Wp

- HJT
- N-Type
- Mono PERC
- All Black
- Flexible
- Special Modules

30 Years

Of Output Warranty*

*For Select Variants only.

12 Years

Of Product Warranty



Mobile Monitoring



Operational Efficiency



Anti Islanding Protection

Solar Off/On Grid Inverter

1kW - 250 kW (Single / Three Phase)



Turnkey EPC & Renewable Power Generation & Infrastructure Projects

One Stop Solution from Land to Asset Management

- Utility Scale Ground Mount projects
- Solar Projects
- Rooftop projects
- Operation & Maintenance

Green Hydrogen

AL & AS Series



Giga-watt scale electrolyser manufacturing in India.



Custom multi-module solutions for different applications.



EPC and Operations & Maintenance services.



Pumps

Solar & Electric Pump



Energy Efficient



Works on lower voltage



Higher operating efficiency



Low Maintenance

INSTALLED
10000+
SOLAR WATER PUMPS
ACROSS INDIA

Energy Storage Solutions

Home ESS | Combo Kits | Telecom | Mobility (2W, 3W, Forklifts), BESS



Minimal maintenance



Reduced carbon footprint



Reduced monthly power bills



Lower cost



Awards & Recognitions

Waaree's excellence in product quality, reliability & sustainable business practices have been independently evaluated by global institutions. RETC has recognized Waaree, the only Indian company to be featured in the report, as "Overall Highest Achiever" in the RETC PV Module Index report 2024, underscoring our product performance, reliability & safety. KIWA PVEL has recognized Waaree as "Top Performer" in the PVEL Reliability scorecard and has been consistent for last 3 years (2022-2024). PVTech has raised Waaree's rating to "A" in the PVTech ModuleTech Bankability report, highlighting our strong financial performance, stability, advanced manufacturing capabilities, and commitment to delivering high-quality and reliable solar modules. EcoVadis Gold Medal is a testament to Waaree's unwavering commitment to environmental sustainability, ethical governance, and responsible supply chain management.



Global Certifications



Technologically Advanced Solar Modules from India's Largest Manufacturer

WE MANUFACTURE
MODULES FROM

3Wp – 730Wp+



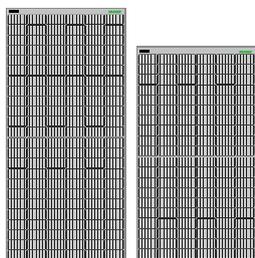
~15GW SOLAR MODULE
MANUFACTURING

13.3GW Manufacturing Capacity in India
1.6GW Manufacturing Capacity in USA

5.4GW SOLAR CELL
MANUFACTURING

Solar PV Modules

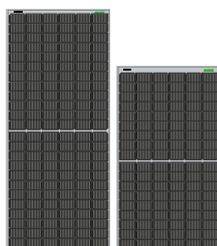
ELITE SERIES



N-type

555 Wp to 715 Wp (G12)
415 Wp to 615 Wp (M10/M10R)

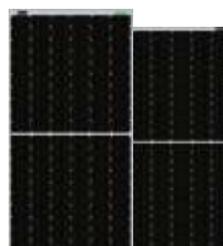
PLEXUS SERIES



N-type HJT

570 Wp to 730 Wp (G12)

ANHAY SERIES



Bifacial P-Type PERC

400 Wp to 665Wp

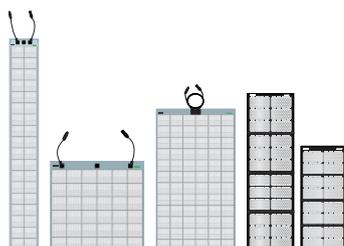
ARKA SERIES



P-Type Mono PERC

400 Wp to 665Wp

FLEXIBLE PV MODULE



110 Wp to 550 Wp

AC MODULES



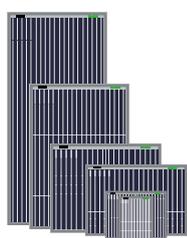
Customizable Wp

TRACKER MODULES



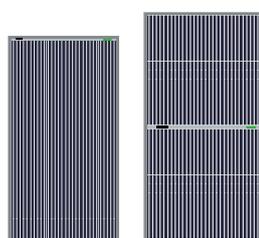
WS-40, WS-60

ARUN SERIES



WS-40 to WS-90

ADITYA SERIES



Poly Modules

325 Wp to 350 Wp (144 Cells)
320 Wp to 350 Wp (72 Cells)
250 Wp to 295 Wp (60 Cells)

3 Wp TO 730 Wp+

Power Range

12 Years

Product Warranty*

30 Years

Limited Power Output

Warranty*

*Minimum 90% at The End of 12 Years

*Minimum 80% at The End of 27/30 Years

*Subject to change as per model and technology.

Buy Solar Product Online on
shop.waaree.com

Waaree EPC Solutions and Services

Ground Mounted Solar

Large-scale, ground-mounted solar solutions for commercial, industrial, and utility needs.



Rooftop Solar

Precision-engineered rooftop installations tailored to regional regulations and climate conditions, reducing grid dependency globally.



Floating Solar

Innovative floating solar systems optimized for diverse water bodies, maximizing space utilization and operational efficiency.



Green Hydrogen

We offer comprehensive solutions for green hydrogen: alkaline electrolyzers, large-scale projects, O&M services, and custom solutions.



Battery Energy Storage

Reliable Energy Storage Solutions for Utility Scale Projects, Commercial & Industrial applications.



Operation & Maintenance

Comprehensive O&M expertise ensuring optimal performance and extended lifespan of solar assets across diverse environments.



2.5+ GWp EPC Solar Projects Commissioned

3.4GWp of Projects Under Commissioning



2012MWp

Jindal Renewables
Bikaner, Rajasthan
(Under Commissioning)



980MWp

Greenko Solar Power Project
Kurnool, Andhra Pradesh
(Under Commissioning)



540MWp

Continuum Green Energy



412.5MWp

Acciona ISTS Solar Plant
Bikaner, Rajasthan
(Under Commissioning)



210MWp

Masaya Solar
Maharashtra



100MWp

Waaneep Solar Pvt. Ltd.
Madhya Pradesh & Andhra Pradesh



49.5MWp

Song Giang Solar Power
Joint Stock Co.
Vietnam



44MWp

Hero Future Energies
Telangana



40 MWhr

BATTERY STORAGE EPC PROJECT

Continuum Green Energy
Gujarat
(Under Commissioning)

53+ MWp Rooftop Solar Projects Commissioned



1200KWp

Reliance Metro
Mumbai



2000KWp

Mondelez india Pvt. Ltd.
(Cadbury), Andhra Pradesh



1860KWp

Maharashtra Seamless Ltd.
Maharashtra



1700KWp

Pirmal Glass Ltd.
Gujarat



1000KWp

SRG Apparels
Tamilnadu



1000KWp

Surat Municipal Corporation
Gujarat



700KWp

MSL Driveline System Ltd.
Maharashtra



450KWp

Orbit Bearings
Gujarat



429KWp

Reliance Mart
Pan India

Solar On Grid Inverter (1kW-250kW)

- Peak Efficiency up to 98.8%
- Multi MPPT / DC Strings
- IP65 dust-proof and water proof
- Multiple monitoring & communication support
- Ideal design for Rooftop Services / Utility
- Low Self - Power Consumption, Low Maintenance
- String - level Monitoring , Large LCD Display
- Built - in DC Switch and Wi-Fi
- Multiple layer Safety protection



Solar Off Grid Inverter (325VA-250kVA)

- PWM/MPPT built-in solar charge controllers
- Smart Solar Selection Logic
- Optimum solar power usage
- Hybrid battery Charging
- Maintaining the battery's gravity
- Use as a conventional inverter in the absence of solar power
- Instant changeover for computers, servers, and sensitive loads
- Ability to provide 100% rated power directly from a Solar Module



Solar Water Pump

- Available from 1 Hp to 10 Hp AC, 50 Hz induction motors as standard, which works on variable frequency according to variable sun intensity.
- Also available for DC category motors
- Rated Power: 0.75 kW to 7.5 kW
- Motor Efficiency: 80% to 96%
- Motor Speed: 900 to 3600 rpm
- Enclosure: IP65
- Head Range: UPTO 300 m
- Flow Rate: Depend on Duty Head and Capacity
- Solar Pump set are available in 4" - 10" diameter



Electric Water Pump

- Power Range: 0.37kW – 11.25kW (0.5Hp – 60Hp)
- Versions: 1Ø, 180 – 240 V, 50 Hz AC Supply | 3Ø, 300 – 450 V, 50 Hz AC Supply
- Head: UPTO 100m
- Speed: UPTO 2900 rpm
- Motor efficiency: 80 – 85%
- Enclosure: IP65



We have Li-ion Batteries for various applications which can be broadly classified into two groups:

| Mobility :

1



E-Bike

2



E-Rickshaw

3



Forklifts

4



Wheelchairs

5



Golfcarts

| Stationary:

1



Solar Street Lights

2



Off-Grid Solar

3



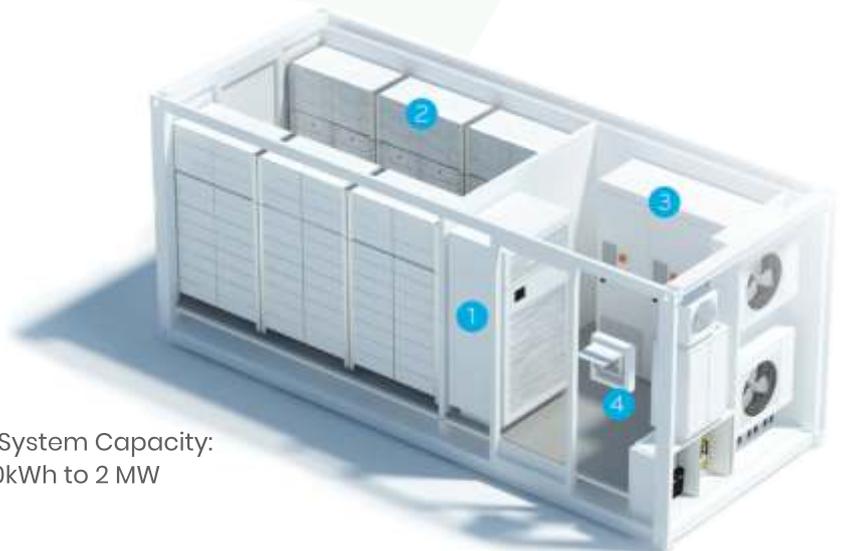
UPS Back-up

4



BESS

Comprehensive BESS Solutions



1 The Battery Inverter Output: 2 Battery System Capacity: from 100kW from 100kWh to 2 MW

3 PV-Inverter Power range starting from 100 kW 4 Other Energy Management System (EMS) + Remote Monitoring

Comprehensive GH₂ Solutions

-  High Efficiency
-  Proven and Reliable
-  Quality Control
-  High Safety Standards
-  Flexibility in Operations
-  Research & Development
-  Low Maintenance
-  Customizable Configurations
-  Certification & Compliance

AS- Series Alkaline Technology

Pressure Raised System - Skid Mounted / Containerized for Small-scale green Hydrogen production



Stack



Single stack skid mounted unit with separate power module



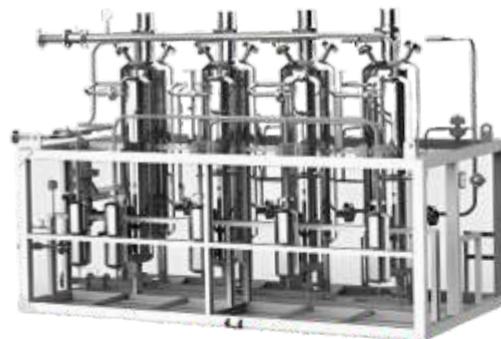
Single stack containerized unit with separate power module

AL- Series Alkaline Technology

Pressure Raised System - Skid Mounted / Containerized for large-scale green Hydrogen production



Separation unit



Purification Unit

Our customers and projects

Key Clientele in India



& many more...

International Customers



& many more...

2.5+ GWp Solar EPC Projects Commissioned

2012MWp

Jindal Renewables,
Rajasthan

980MWp

Greenko Solar Power Project,
Andhra Pradesh

540MWp

Continuum Green Energy

412.5MWp

Acciona ISTS Solar Plant,
Rajasthan

210MWp

Masaya Solar,
Maharashtra

49.5MWp

Song Giang Solar,
Vietnam

Largest Franchisee Network in India

Partner with us to Build a Sustainable Tomorrow

Integrating best people, machinery, processes & materials to deliver quality products & services.



World-class Team



State of the art
Production line



Quality Controlled
Processes



Best Rated
Manufacturing
Material

388⁺

Franchisee & Counting

Buy Genuine Solar Products Online

Our website shop.waaree.com is the only online store in India offering a comprehensive range of solar energy products, energy storage, solar water pumps, inverters, and cables. Our e-commerce platform is the first of its kind in the solar sector to offer products online.



Expanding our Network through Waaree Expert

Presence over 90+ Locations



Site
Survey



Installation &
Commissioning (Solar Projects)



Operation
& Maintenance



Solar Module
Cleaning Services



Inhouse Testing Facility

IEC CB CTF
APPROVED LAB



From
Intertek
Total Quality. Assured.



TC-8973

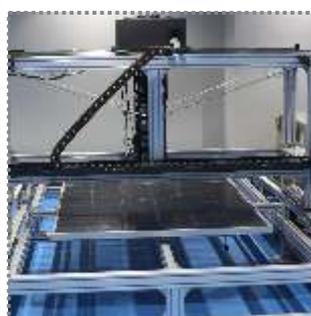
India's First
NABL Accredited Lab
by solar module manufacturer



Dynamic Mechanical
Load Test



Robustness Of
Termination Test



Hail Impact
Test



Humidity Freeze & Thermal
Cycling Test



UV Test



Uniform Snow
Load Test



PID Test



Salt Mist Corrosion Test

- Solar Cell Tester
- Pressure Cooker Test
- Glass Fragmentation Test
- Frame Anodizing Test
- EVA Gel Content Test and Peel Test
- Junction Box IP 67 Test

Scan to watch our
Quality & Testing
Facility Video



India's Largest Vertically Integrated Solar Manufacturing Company



~15GW Solar Module
Manufacturing

5.4GW Solar Cell
Manufacturing



Empowering Transformation towards Zero Carbon Future

Prosperous ecological civilization. Zero-carbon energy with lower costs will bring greater convenience to human activities, and solar energy is the main pillar and economic source of zero-carbon energy.

We continuously innovate to make full use of sunlight in every scenario for more energy conversion, developing solar energy technology with higher photoelectric conversion efficiency and lower cost, empowering transformation towards a carbon-free era.



Redefining Solar for Carbon-free Society

Making the Earth a Better place, Everyday...

Since its Inception Waaree has Supplied Solar Panels equivalent to...



Planting ~
36 Crore trees



Reducing ~ **75 Lakh**
Tones of CO₂ Emissions

Our Community Initiatives



Skill Development of **1000+** Families in Rural Areas

Education



6855+ Students across **382+** Villages



WAAREE®

One with the Sun

Waaree Crop Vr 03 / April 2025

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