

# Special PV Modules



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Waareeflexi/vr.01/Oct2025

Flexible | Small Modules | Foldable Module | BIPV

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ACCELERATING GLOBAL  
ENERGY TRANSTION



# From the chairman’s desk

Dear Friends,

Greetings from Waaree!

At Waaree, we are proud to be a global catalyst in the transition to **clean, sustainable energy**. Our mission is to enable a greener future by delivering **fully integrated renewable energy solutions** that empower industries, communities, and nations.

With a presence across the entire green energy value chain — from **Solar Ingots, Wafers, Cells, and globally recognized PV Modules**, to **Inverters, Energy Meters, Green Hydrogen, Battery Energy Storage, Transformers, and Turnkey EPC Solutions** — Waaree offers a **seamless path to energy transition**.

Our diverse portfolio includes **Utility-Scale and C&I Energy Storage, ~6.5 GW of Renewable EPC**, and **cutting-edge Green Hydrogen Infrastructure**, providing customers with **end-to-end, future-ready energy systems**.

We are expanding rapidly through a **global network of partners**, ensuring that clean energy solutions are **accessible, adaptable, and impactful** in every region we serve.

By embracing innovation and sustainability, Waaree is redefining the possibilities of renewable energy — not just as a product, but as a global movement.

Together, let us accelerate the transition to a cleaner planet and a brighter future 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.

## Core Values


Safety


Customer First


Integrity

## Vertically Integrated Manufacturing Facility Globally

<b>15.1GW</b>	Solar Module Manufacturing in India	<b>1.6GW*</b>	Solar Module Manufacturing in US <small>*Additional 1.6 GW under expansion</small>
<b>10GW*</b>	Ingot - Wafer - Cell Manufacturing <small>*Expansion Plan</small>	<b>6GW*</b>	Solar Module Manufacturing <small>*Expansion Plan</small>
<b>5.4GW</b>	Solar Cell Manufacturing	<b>20GWh*</b>	Battery Manufacturing <small>*Expansion Plan</small>
<b>4GW*</b>	Inverter Manufacturing <small>*Expansion Plan</small>	<b>1GW*</b>	Electrolyser Manufacturing Facility <small>*Expansion Plan</small>

Scan to watch our Corporate Film



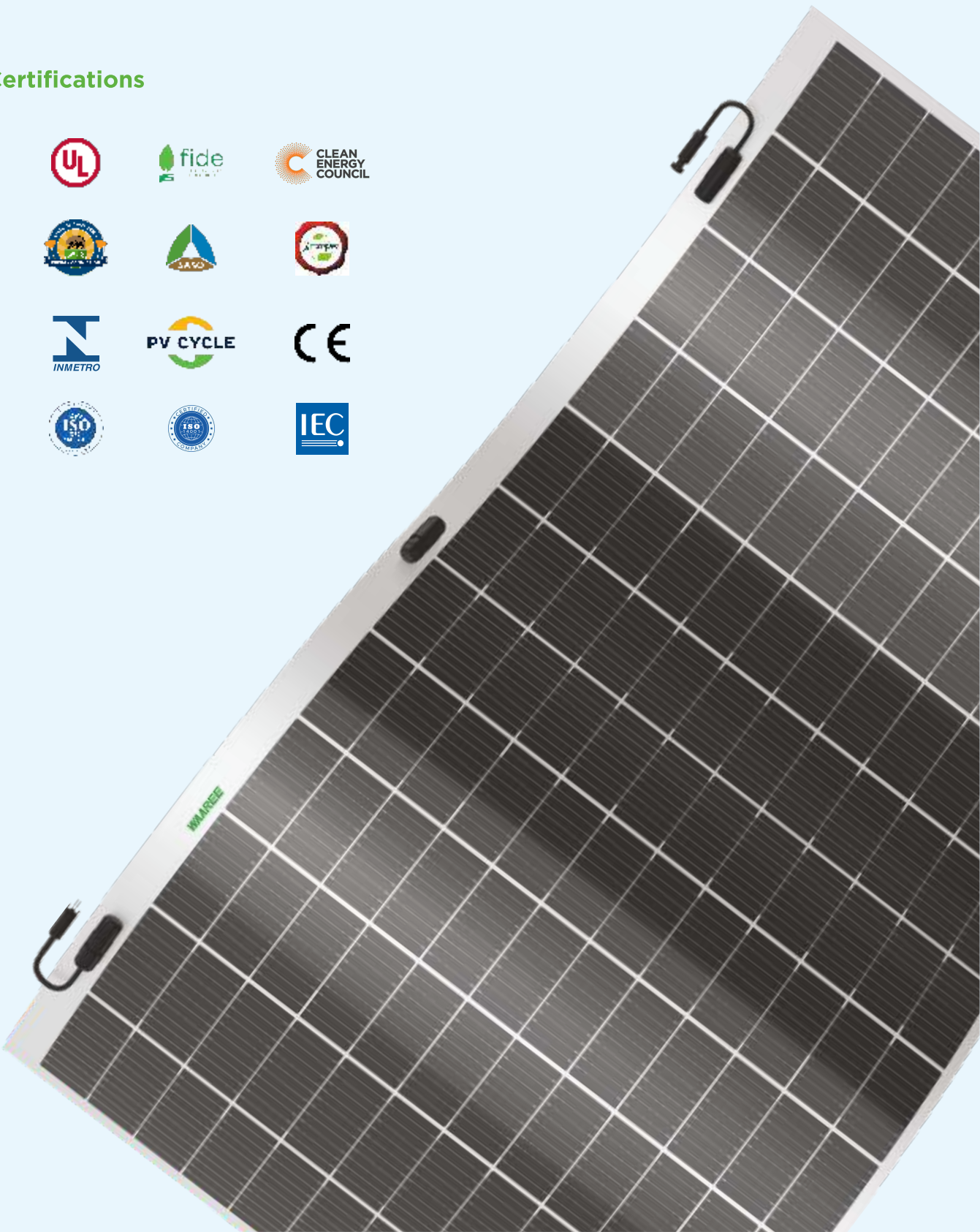


# RECOGNITIONS & CERTIFICATIONS

## Recognitions

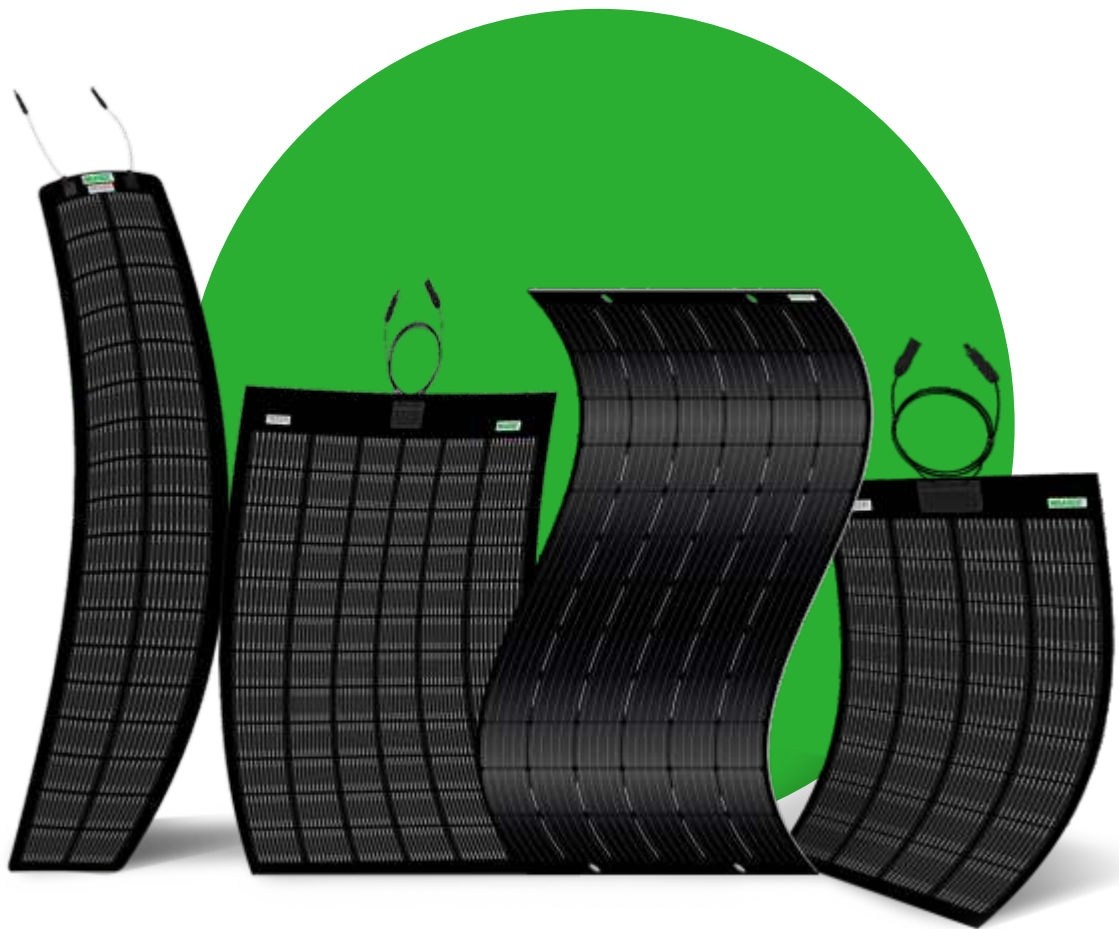


## Global Certifications



# FLEXIBLE LIGHTWEIGHT MODULES

Waaree's flexible and lightweight solar modules deliver portable, high-performance energy solutions for rooftops, mobile setups, and custom applications. Engineered to be significantly thinner and lighter than conventional panels, they are designed for effortless installation and adaptability—especially where rigid modules fall short. Built with high-efficiency crystalline silicon cells and durable polymer-based, these innovative panels eliminate the need for heavy glass without compromising on performance or reliability.



Particulars	WFLW-84	WFLW-125-36	WFLW-250	WFLW-500
Rated Power Pmax (Watt)	84	125	250	500
Panel Dimensions (mm)	1240X418	1798X418	1240X1154	2270X1190
Open Circuit Voltage Voc (Volts)	16.56	24.84	49.68	49.68
Max Peak Voltage Vmp (Volts)	14.16	21.24	42.48	42.48
Max Peak Current Imp (Amps)	5.90	5.90	5.90	11.78
Short Circuit Current Isc (Amps)	6.18	6.18	6.18	12.36
Number of Cells (nos.)	24	36	72	144 (72  72)
Panel Weight (Kg)	2.5±0.5	2.8±0.5	5.8±0.5	10.5±0.5
Cell Size (mm)	91X182HC	91X182HC	91X182HC	91X182HC
Active Area Efficiency	21.02%	21.02%	20.96%	20.80%
Laminate Thickness (mm)	3.2	3.2	3.2	3±0.3
Module thickness with Jbox (mm)	22	22	22	20±0.3



## BENEFITS OF FLEXIBLE PANELS

### REVOLUTIONARY LIGHTWEIGHT DESIGN

- 70% lighter
- Weighing just 3.0 - 4.0 kg/m<sup>2</sup>
- Eliminates the need for structural reinforcement

### SUPERIOR ADAPTABILITY

- Flexes up to 30°
- Perfect for tensile structures, glass rooftop, pergolas, and irregular architecture
- Custom shape and size options available

### ENHANCED PERFORMANCE

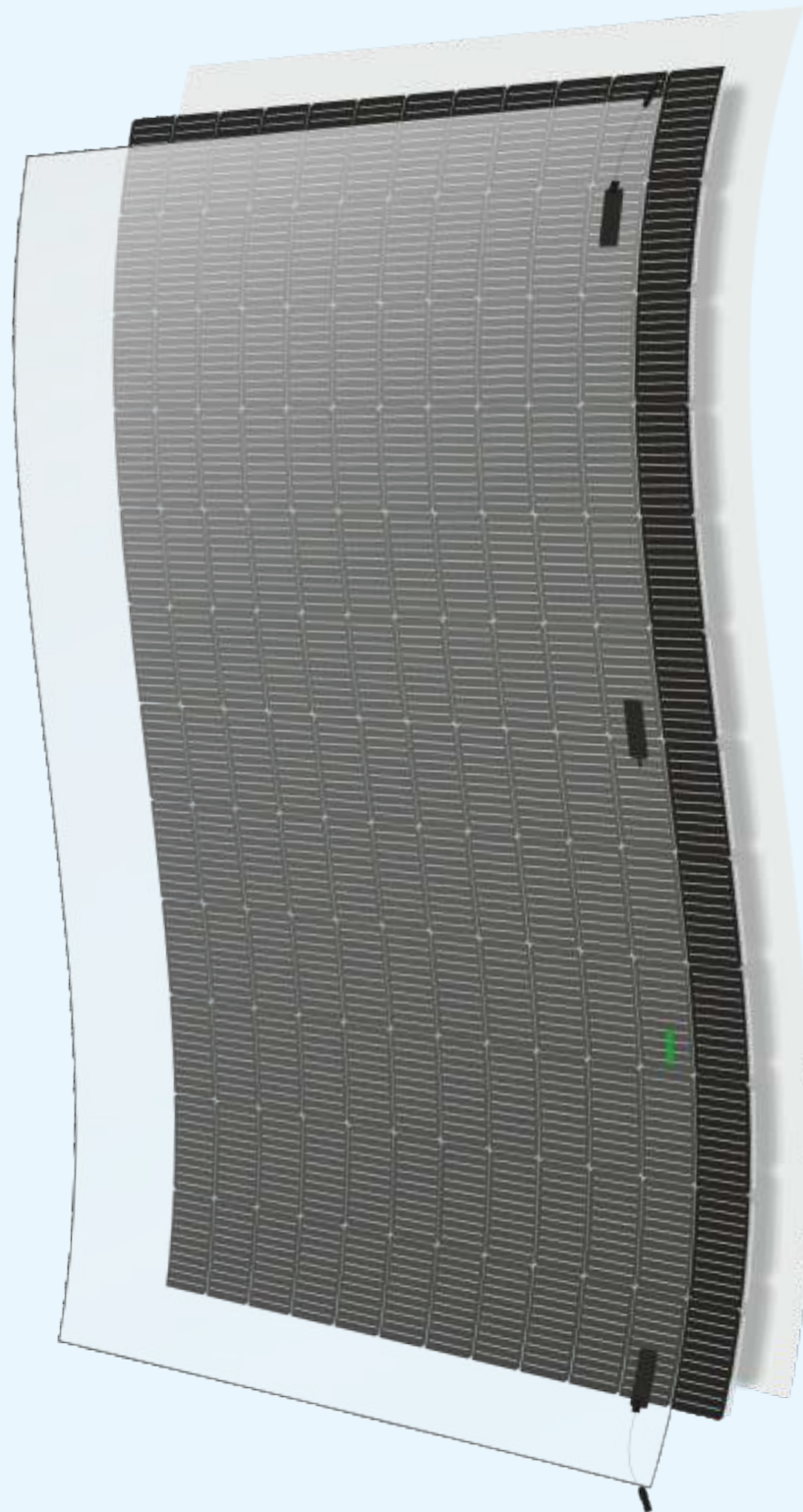
- Better Utilisation of Space
- Exceptional low-light performance
- Superior heat dissipation

### SIMPLIFIED INSTALLATION

- No penetration required
- Eliminates need for heavy mounting structures and racking systems
- Reduces installation time by up to 60%
- Minimal maintenance required

### SAFETY

- Less Stress on the Roof
- No Shattering on glass
- Reduced injury risk
- Safe and Easy installation



Ultra Light Weight



Easy & Quick to Install



Easily Mounted with Number of Options



Low System Installation Cost



Superior Low Light & Low Sun Angle Performance

## APPLICATIONS

### INDUSTRIAL & COMMERCIAL



Low Load Bearing Roofs



Lightweight metal roofs and aging industrial structures



Retail centers with architectural glass features



Curved warehouse roofing



Airport terminals and transport hubs



Metro stations and transport facilities



Parking canopies and shade structures



Modern architectural features



Public facilities with aesthetic requirements

### INFRASTRUCTURE



### TRANSPORTATION



Heavy Duty trucks & Commercial fleets



Buses and coaches



Specialty Vehicles & mobile assets



Marine vessels and recreational vehicles



Outdoor Event Spaces



Temporary Structures



Agricultural shade houses



Campaign & Remote Deployments

### SPECIALTY APPLICATIONS



Tent



Buses

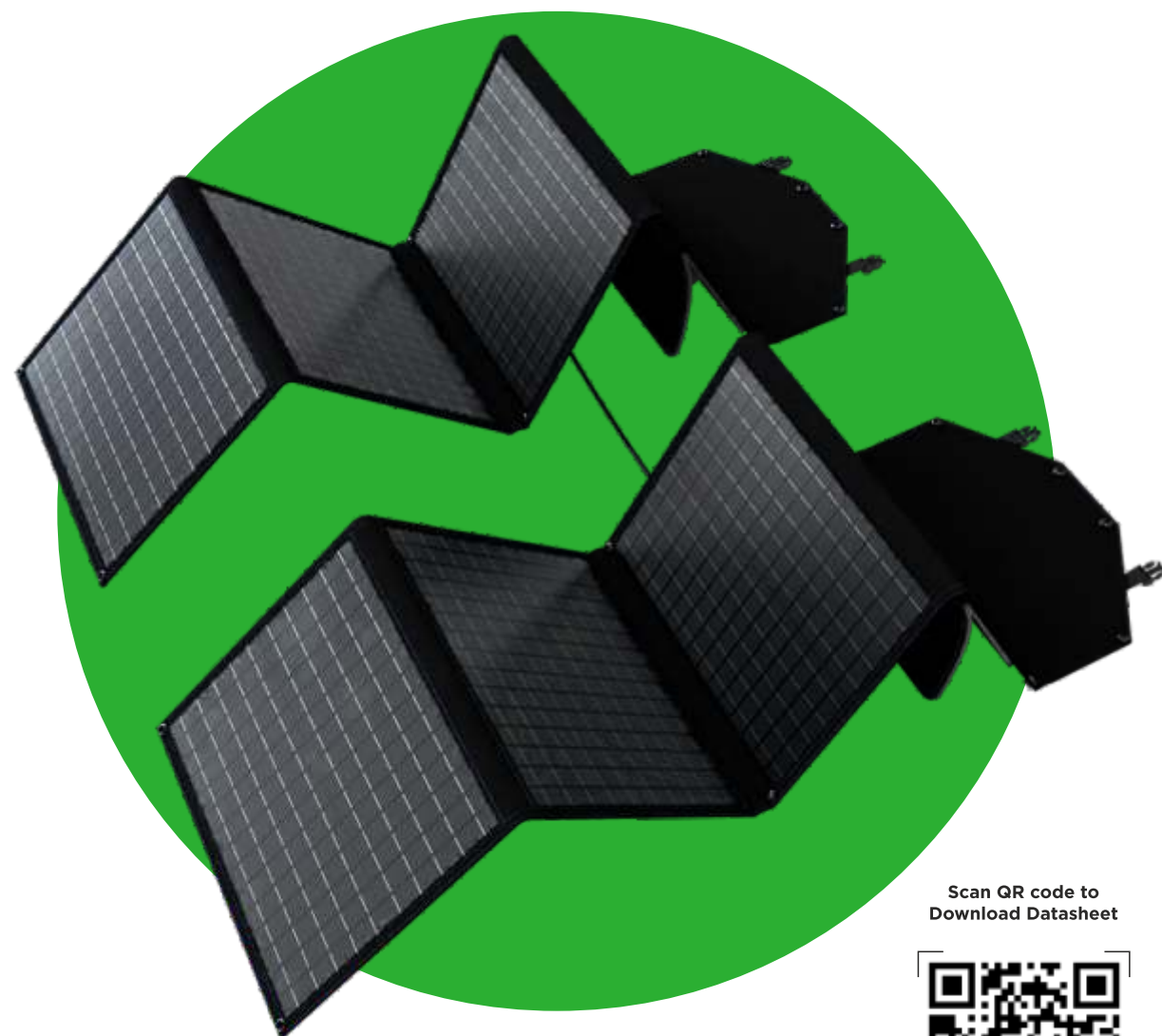
### DEFENCE





## FOLDABLES

Waaree's foldable solar modules are designed for ultimate portability and convenience, offering a reliable power source wherever you go. Lightweight, compact, and easy to carry, they combine high-efficiency solar cells with a durable, foldable structure—delivering powerful performance in a sleek, travel-ready format. Ideal for outdoor activities, field operations, and emergency backup, these modules unfold in seconds to harness solar energy on demand.



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Compact, highly portable design



Immediate off-grid energy solution



All-terrain power generation



Reduced logistical footprint

## APPLICATIONS



### OUTDOOR ADVENTURES

Foldable solar panels are ideal for campers, hikers, and outdoor enthusiasts, charging phones, GPS units, and portable batteries on the go or in remote locations.

### EMERGENCY BACKUP POWER

In power outages or disasters, portable solar panels are a quick, reliable power source for communication, lights, and small appliances.



### MILITARY AND TACTICAL USE

Portable panels provide critical power in the field, enabling soldiers to charge radios, GPS, and other equipment without traditional power sources.

### MOBILE OFFICES & REMOTE WORK

Professionals in remote areas can use foldable solar panels to power laptops, communication systems, and other electronics.



### ELECTRIC VEHICLES & RVs

Foldable solar panels extend battery life for RV and EV users, providing on-the-go charging for accessories or auxiliary batteries.

### BOATING AND MARINE

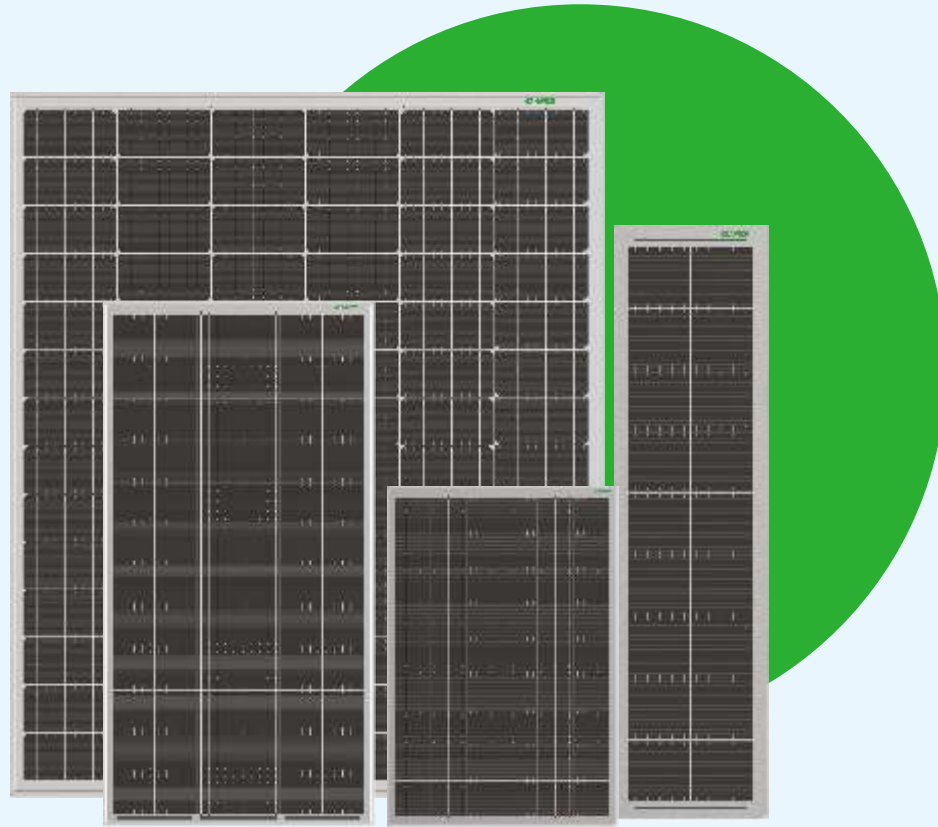
Foldable solar panels are ideal for boats and yachts, providing renewable power for navigation, lights, and other onboard electronics where space is limited.





## SMALL GLASS MODULES

Small glass solar modules are tailored photovoltaic solutions (10W-300W) for specific projects. Available in various sizes and transparency levels, frameless or framed, they're ideal for building integration, skylights, façades, and specialized applications.



### 10W to 300W

#### POWER OUTPUT RANGE

Customized modules from 10W to 300W.

#### MODULE SIZE

Varying dimensions depending on the application, including very small sizes for portable and specialty uses.

#### GLASS TRANSPARENCY

Adjustable transparency levels for building integration, allowing light transmission for skylights or façades.

#### FRAME TYPE

Frameless for seamless integration into windows and glass surfaces or with a frame for more traditional mounting applications

## APPLICATIONS

### BRANDING

Tailored space can be made on the panel for customers to showcase their brand, Stand out in the market with branded installations that make a lasting impression

### COMMERCIAL

Ideal for businesses seeking reliable and aesthetically pleasing energy solutions.

### INDUSTRIAL

Durable panels designed to meet the demanding energy needs of industrial applications.

### ARCHITECTURAL

Custom designs that blend functionality with elegance for modern buildings



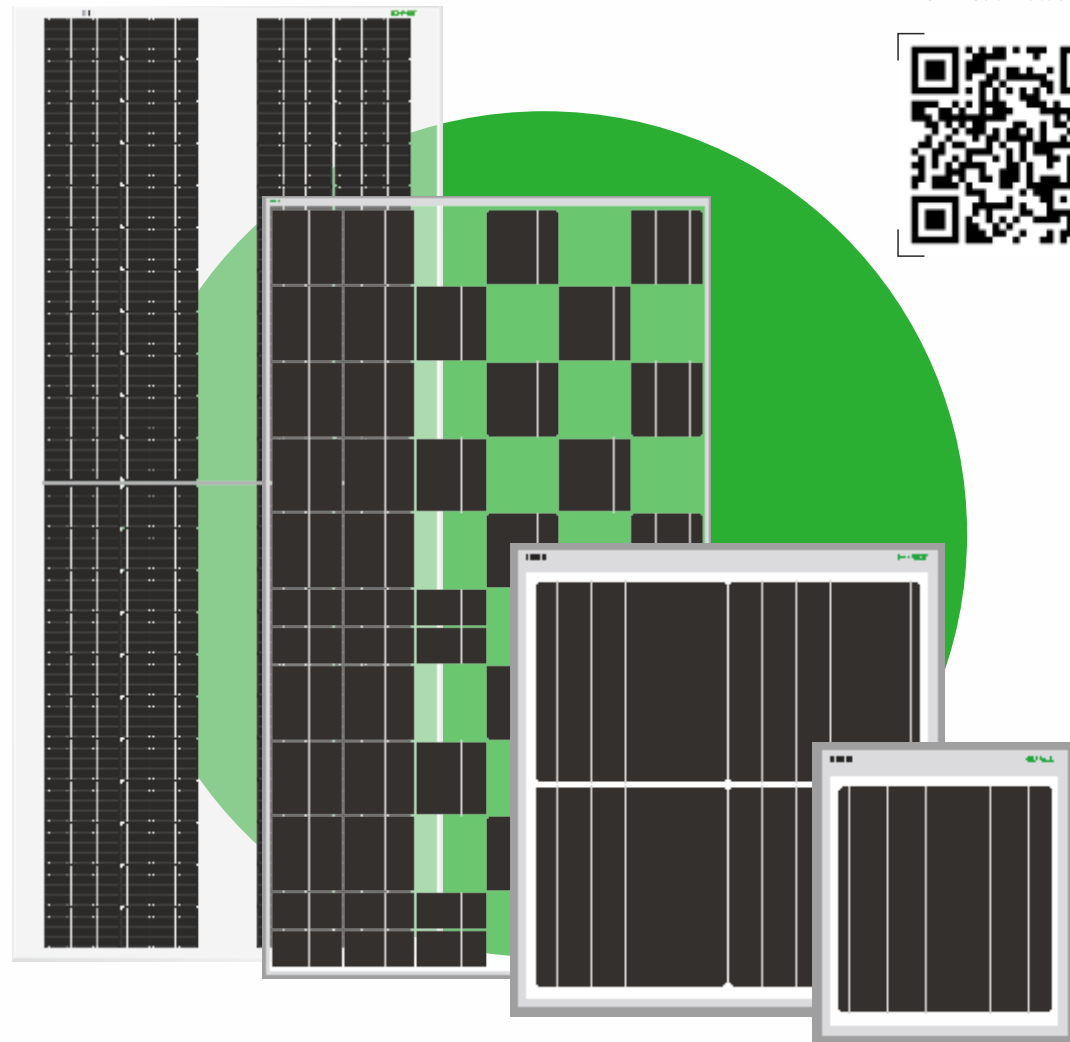


## BIPV

### WHERE ARCHITECTURE MEETS CLEAN ENERGY

BIPV (Building-Integrated Photovoltaic) solar modules are advanced solar solutions that seamlessly integrate into building materials—transforming walls, roofs, facades, and even windows into clean energy generators. Unlike traditional panels, BIPV modules are part of the building itself, combining aesthetics, function, and sustainability.

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Zero penetration  
installation



Rapid deployment  
capability



Corrosion resistant,  
durable construction



Energy independence  
in seconds

WAAREE®  
One with the Sun



## APPLICATIONS

Perfect for modern architectural projects, green buildings, commercial spaces, and urban developments, BIPV modules replace conventional materials with high-performance, energy-generating alternatives. They are a sleek, futuristic look while significantly reducing energy costs and carbon footprint.



## FLEXIBLE MODULE PROJECTS



Capacity : **1000KWp**

Client : Swaminarayan Temple

Location : Multiple Location in Gujarat

Challenges Addressed :  
Tensile and Curved Roof



Capacity : **700KWp**

Client : Reliance Projects & Property Management Services

Location : Mumbai

Challenges Addressed :  
Uneven and Low Load Bearing Roof



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Capacity : **500KWp**

Client : Nexus Mall

Location : Delhi

Challenges Addressed :  
Human Safety and Dome Shaped Roof Structure.

