



REDSOLAR

# **A Supplier of Full-size Customized Product & System Solution**

WHERE LIGHTS ARE LIT, THERE IS RED SOLAR

## Company Introduction:

Hunan Red Solar New Energy Science and Technology Co., Ltd. was established in 2008 with a registered capital of RMB 342 million and a staff of over 1,000. It is a global supplier of full-size customized product & system solution.

**Business scope:** Focusing on high-efficiency photovoltaic products, clean energy solutions and professional operation and maintenance services.



Diverse

Wide range of compatible sizes, small size cell production capacity

Various circuit layouts and automated production capabilities

Diversified product packaging forms, automated production capabilities for bifacial, double-glass, light-weighted and products with installation structure

The service forms and contents are various, including testing, certification and spare parts

Fast

The overall response speed is fast, and product design can be quickly carried out according to customer needs

Fast sample delivery, 20% faster than the industry average

Superior

Professional product design capabilities, providing the best solutions based on customer needs

High-standard production and quality control process to ensure product quality

Cost-effective

We can provide customized full-service according to the specific usage scenarios, making customers worry-free

Protect the entire life cycle of customers' photovoltaic products and help them save money

Product type	Scenario application	Product features
Repowering Modules	Technical transformation power station	Customized small-size modules such as 200-500W in old power stations
Light-weighted Modules	Low-load-bearing roofs	Use ultra-high-strength lightweight materials to reduce module weight by 40%, and it can resist hail, snow loads, wind and outdoor climate for a long time. Modules can be installed without reinforcement of the roof. Module weight 6-10kg/m2
Light-transmitting Modules	Sun room/fence	Optimize cell layout, adjust the photoelectric output ratio, and ensure lighting freedom for customers. The light transmittance can be adjusted by 10-60%
BIPV Modules	Replace color steel tile roofs	Replace color steel tile roofs, making photovoltaics a real building material, providing the users reliable roofs with efficient green electricity revenue. The product is three-level waterproof, and the whole house is one-level waterproof

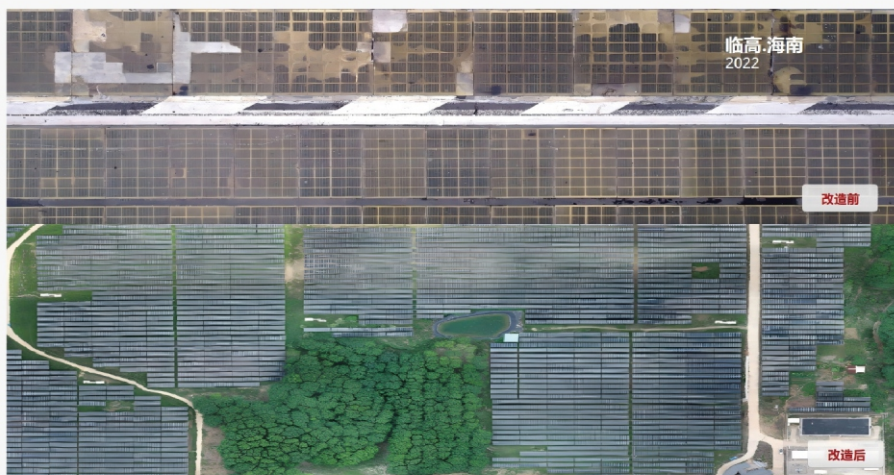
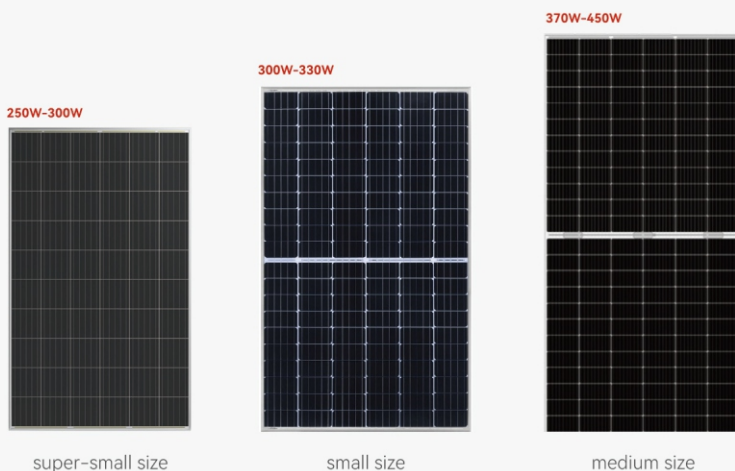


## > Special Modules for Power Station Repowering

**Module power:** 250-450W (customizable)

**Application scenario:** Technical transformation of power stations, Customized small-sized modules such as M2/G1 for old power stations

**Product advantages:** customized size (length: 1640-2100mm, width: 800-1200mm)

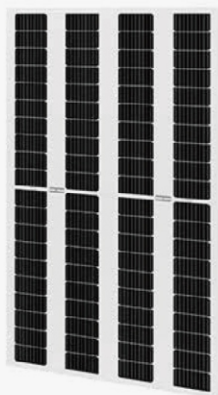


## > Agricultural greenhouse light transmission modules

**Modules power:** 350-390w

**Application scenario:** sun room/fence, optimize cell layout, adjust the photoelectric output ratio, and ensure lighting freedom for customers

**Product advantages:** Light transmittance up to 60%



## > Light-weight Modules

**Module power:** 435-455W

**Application scenario:** low load-bearing roof, Use ultra-high-strength lightweight materials to reduce module weight by 40%, and it can resist hail, snow loads, wind and outdoor climate for a long time. Modules can be installed without reinforcement of the roof.

**Product advantages:** Weight per square meter: 6.9kg/m<sup>2</sup>

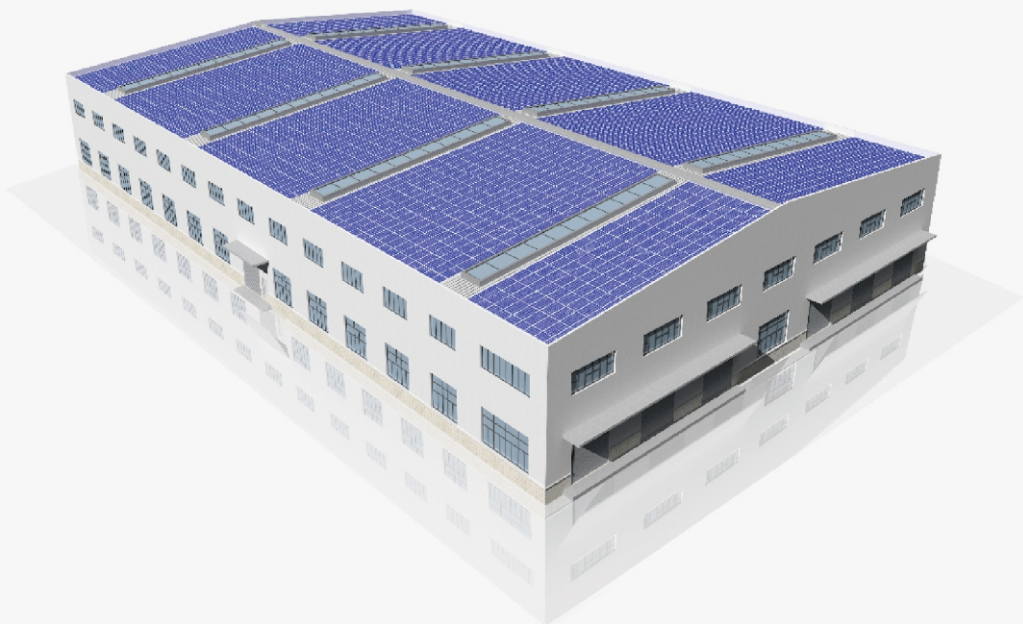
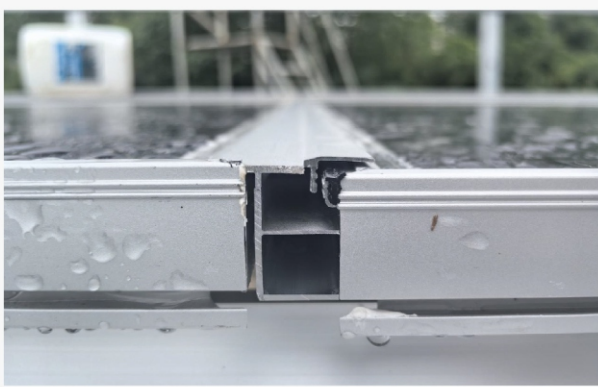


## > BIPV modules

**Module power:** 590W

**Application scenario:** Replacement of color steel tile roof, Replace color steel tile roofs, making photovoltaics a real building material, providing the users reliable roofs with efficient green electricity revenue.

**Product advantages:** The product is three-level waterproof, and the whole house is one-level waterproof





## Typical cases

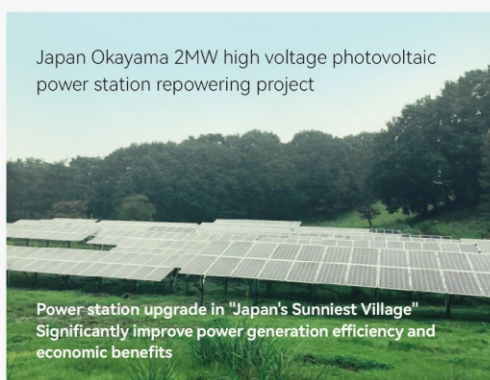
### ① Power station repowering products

**High-efficiency module upgrade:** By replacing the original polycrystalline 250W modules with monocrystalline 320W modules, the total capacity of the power station was increased from 1.62MW to 2MW, increasing power generation by 28%.

**Compatibility design:** The new modules maintain the same size and installation method as the old ones, ensuring compatibility with the existing system and effectively reducing the cost and workload of replacing.

**Power station capacity:** 2MW; **Number of module:** 6482;

**Project type:** Ground distributed; **Annual power generation:** 2.67 million kWh;



### ② Customized street light products

**Directional design:** using the original street light bracket, use small size 70W modules, matching the customer's street light parameters and hole positions, no longer dark at night.

**Power station capacity:** 1MWp;

**Number of modules:** 14280modules;

**Project type:** Off-grid street light project;

**Annual power generation:** 950,000 kWh;

### ③ Customized BIPV products

**Module solution:** The special structural design of the module structure, combined with black module technology, realizing the dual functions of roof waterproofing and aesthetics.

**Solution:** Frame waterproof design + sealing ring design to meet the waterproof and aesthetic requirements of the building.



## Quality Assurance

#### 1. Extra-long warranty period

**Ultra-long warranty period:** up to 15 years of quality assurance and up to 30 years of power assurance.

#### 2. Full-scenario insurance coverage solution

**Production side:** Raw material defect insurance; **Logistics:** Marine salt spray corrosion insurance + land transportation bumpy damage insurance; **Operation side:** 30-year power attenuation insurance + extreme weather additional insurance

#### 3. Professional Insurance Institutions

**Domestic:** Pacific Insurance, etc. **International:** Munich Re, Lloyd's

#### 4. Product technical strength endorsement

**Industry-leading reliability certifications:** TUV, CE, CGC, etc



SCAN THE CODE TO FOLLOW

COOPERATION CONSULTATION

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