



**安徽宇信新材料有限公司**  
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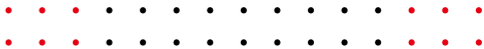


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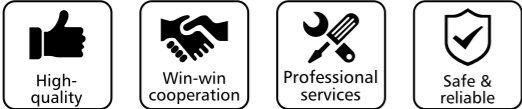
Building Integrated Photovoltaics  
Waterproof Mounting System  
Professional Solutions

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# Company Profile



## About Us



We provide our clients with Building Integrated Photovoltaics mounting system solutions for efficient energy utilization. Through more convenient and secure BIPV mounting system, creates a new environment for our clients' energy conservation, emission reduction, and sustainable development.

Anhui Yuxin New Materials Co., Ltd., located in Chizhou City under The Mount Jiuhua, a sacred Buddhist site, has been committed to the research, development, production and sales of photovoltaic products. The company's core product, "Building Integrated Photovoltaic Waterproof Bracket", possesses complete independent intellectual property rights, and has provided professional services for nearly gigawatt-scale commercial and industrial rooftops. Since its launch, the product has won favor from both domestic and international users. The company combines digestion and absorption of internationally leading technologies with independent innovation, adheres to forward-looking technology reserves, adopts digital management and production systems, and stays at the forefront of industry development through management process and product quality consciousness reconstruction. The company has invested heavily in industry-leading intelligent production lines and quality inspection equipment, relying on an experienced technical R&D team to continuously optimize product structure, achieved rapid product upgrades, and obtained more than 20 national patents, laying a solid foundation for sustainable enterprise development. With strict enterprise management, exquisite processing technology, perfect after-sales service, and excellent business reputation, our company has won unanimous praise from both domestic and international customers. We not only provide high-quality products but also offer comprehensive after-sales services including installation and commissioning, technical consultation, and operator training, eliminating customers' worries.



ISO9001



ISO14001



ISO45001

# Production Strength

## Manufacturing Capabilities

### Production scale

Product systematization

**Anhui Yuxin New Materials Co.,Ltd.**

has invested heavily in introducing internationally advanced equipment and possesses a high-quality workforce. All product developers and technicians have been consistently focused on their respective professional fields. In recent years the company has sent numerous technical and managerial personnel to engage in technical and managerial exchanges and cooperation with senior executives of renowned international industry leaders, thereby establishing a talent ladder for product R&D, design, and manufacturing. From raw materials procurement to manufacturing, full automation and standardized production have been implemented, efficiently increasing productivity while ensuring product quality and performance stability, and guaranteeing timely and quality delivery of orders.



Have an automated production line

**20<sup>+</sup>**

Independent manufacturing rate

**95%<sup>+</sup>**



# BIPV

## Waterproof Mounting System



### System Analysis



- 01**  
**Dust and current limiting strip**  
Material: Foam silicone  
Function: Dust proof and current limiting
- 02**  
**Supporting trunking**  
Material: Zinc Aluminum Magnesium  
Function: To prevent horizontal structure sagging and serve as a DC cable tray
- 03**  
**Transverse Structure (Auxiliary sink)**  
Material: Zinc Aluminum Magnesium  
Function: To provide structural support and guide water flow through component gaps
- 04**  
**Draw Hook**  
Material: Zinc Aluminum Magnesium  
Function: Component fixing kit
- 05**  
**Longitudinal structure (Main sink)**  
Material: Zinc Aluminum Magnesium  
Function: To provide structural support and guide water flow through component gaps
- 06**  
**Integrated cover strip**  
Material: Zinc Aluminum Magnesium  
Function: Tighten components, dustproof and current limiting

### Main products



## BIPV Mounting System Solutions

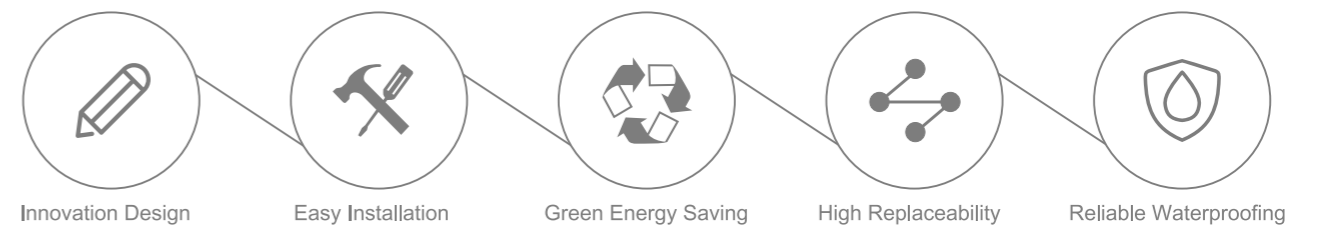
### Product Design Concept

Yuxin's BIPV solution is designed around the core principles of current limiting, flow guiding, and flame retardancy.

- Current Limiting:**  
The uniquely designed "integrated cover strip" and "flow-limiting dust-proof strip" restrict water flow to the extreme. Regardless of how strong the wind and rain are, the flow rate of water entering the drainage channel remains constant.
- Flow Guiding:**  
The infiltrated rainwater is guided to the gutter through reasonable connection of the "longitudinal and transverse structure". The design of removing pressure blocks ensures smoother drainage in the longitudinal structure.
- Flame retardancy:**  
By routing the DC cables through "supporting trunking", they can be neatly organized within professional cable bridges, providing both flame retardancy and aesthetic appeal.

### Features and Advantages

- Superior Waterproofing**  
Structural and dual-level waterproofing: First, the integrated cover strip and dust-proof current-limiting strip effectively block debris and most rainwater. Second, through the systematic connection of longitudinal and transverse structures (primary and auxiliary water channels), drainage is achieved to ensure complete waterproofing.
- Perfect Integration**  
It can achieve seamless connection with traditional building materials, such as daylighting strips and ventilation facilities at the upper end of the roof, as well as thermal insulation materials and other facilities at the lower end of the roof.
- Chimney Effect**  
The non-hermetic nature of airflow: The design considers ventilation and heat dissipation requirements, allowing airflow to quickly diffuse and flow along the main and auxiliary water channel. When thermal insulation materials are laid at the lower end of the roof, the entire system maintains a constant temperature, thereby improving power generation efficiency.
- High Safety**  
The overall sink structure has high strength. The BIPV system weighs 3.5kg per square meter, and after installing solar panels, the weight will not exceed 20kg per square meter. The wind load is 2400Pa, and the snow load is 5400Pa.
- Roof Replacement**  
Light steel structure buildings can directly replace color steel tiles. For concrete structure buildings, light steel structure beams and purlins need to be erected before installation.
- Easy Handling**  
From the initial design stage, installation and maintenance were taken into consideration. Through extensive practical experience, we have concluded that the overall installation and maintenance efficiency is comparable to traditional roofing projects, without any additional costs.
- Material Features**  
Our BIPV mounting system utilizes Zn-Al-Mg coated steel, which is characterized by its lightweight, high strength, and corrosion resistance.
- Service Life**  
The typical maintenance cycle for traditional steel structure roofs is usually between 10 to 15 years after installation, while BIPV photovoltaic roofs have a power generation lifespan of 25 years, and the lifespan of roofs constructed with BIPV systems can exceed 25 years.



# BIPV

## Waterproof Mounting System



### Revenue Analysis

**1 Cost Savings on Color Steel Tile Construction**

The cost of color steel materials, including labor, is 80 yuan per square meter. Excluding the shaded area, a 10,000 m<sup>2</sup> factory roof can save approximately 800,000 yuan in construction costs.

**2 Cost Savings on Color Steel Tile Replacement**

The replacement of color steel tiles requires demolition and refurbishment before re-laying. For a 10,000 m<sup>2</sup> factory building, the cost is no less than 900,000 yuan. In heavily polluted areas, color steel tiles may need to be replaced every 6 years.

**3 Electricity Tariff Discount Benefits**

With a 15% discount on electricity tariffs and an average tariff of 0.8 yuan per kWh, 0.12 yuan is saved per kWh. A 10,000 m<sup>2</sup> roof generates approximately 1.2 million kWh of electricity annually, resulting in electricity cost savings of about 150,000 yuan.

**4 Other Benefits**

1. Eligible for government energy conservation and emission reduction subsidies (standards vary by region);  
2. Builds a low-carbon, eco-friendly corporate image.

## Standard Solar PV Bracket

### BIPV Lighting Strip

PV panel aluminum frame

Tempered glass

Customizable in various specifications and sizes

## BIPV Mounting System Solutions

### Aluminum Alloy Bracket

Circular Fixture MODEL:YX-001	Circular Shaped Guide Rail MODEL:YX-002	Medium Pressure Block MODEL:YX-003	Side Pressure Block MODEL:YX-004	Trapezoidal Tile Fixture MODEL:YX-005	Corner Relaxation Fixture MODEL:YX-006
Trapezoidal NutSet MODEL:YX-007	Vertical Locking Fixture MODEL:YX-008	Vertical Locking Fixture MODEL:YX-009	Corner Type Integrated Fixture MODEL:YX-0010	T-Bolt MODEL:YX-0011	Rail Connector MODEL:YX-0012

### Installation steps

01 Install the clamp according to the drawing.	02 Install the other clamps in the same way.	03 Install the guide rail onto the fixing device and secure it with screws.	04 Connect the guide rails with rail connectors.
05 Install other guide rails using the same method.	06 Install the solar panels and secure them to the rails using side clamps.	07 Install solar panels and secure them to the rails using mid clamps.	08 Installation completed.

# BIPV

## Project Cases



Project Name : Lingnan Beef Cattle Industrial Cluster, Anqing, Anhui  
Installed Capacity : 24MW



Project Name : Luffy Magnesium Technology Co., Ltd , (Anhui) Chizhou, Anhui  
Installed Capacity : 8.7MW



Project Name : Everdisplay Optronics (Shanghai)  
Installed Capacity : 19MW



Project Name : Maidun Co.,Ltd.(Xiamen) BIPV rooftop solar power project  
Installed Capacity : 5.0MW

# BIPV

## Project Cases



## BIPV Mounting System Solutions



Project Name : WMF Household Products Co., Ltd., (Zhejiang) Yuhuan, Zhejiang  
Installed Capacity : 5.0MW



Project Name : Huicheng Co., Ltd. (Chizhou, Anhui)  
Installed Capacity : 5.9MW



Project Name : Yunfu Stone City, Yunfu Guangdong  
Installed Capacity : 5.99MW



Project Name : Shanghai Boeing Hangar Rooftop Solar PV BIPV Project  
Installed Capacity : 3.0MW



Project Name : Anhui Guihang Special Steel Co., Ltd. (Guichi, Chizhou, Anhui)  
Installed Capacity : 20MW



Project Name : Weiman Aluminum Technology Co., Ltd. (Chizhou, Anhui)  
Installed Capacity : 5.9MW



Project Name : Malaysia Tofu Factory BIPV Project  
Installed Capacity : 145KW



Project Name : Qianzhiya Sanitary Products Co., Ltd. (Hubei)  
Installed Capacity : 2.2MW



Project Name : Hainan Drinda New Energy Technology Co., Ltd. (Haikou, Hainan)  
Installed Capacity : 1.7MW



Project Name : Anhui Yunyan Food Technology Co., Ltd. (Ningguo, Xuancheng, Anhui)  
Installed Capacity : 1.7MW



Project Name : Shaoxing Keqiao Dashen Textile Co., Ltd. (Shaoxing, Zhejiang)  
Installed Capacity : 2.4MW



Project Name : Shanghai Mitsubishi Elevator Rooftop Solar PV BIPV Project  
Installed Capacity : 600KW



Project Name : Fuhua Industry Co., Ltd. (Pengjiang, Jiangmen, Guangdong)  
Installed Capacity : 1.0MW



Project Name : Sanya, Hainan Coastal Rooftop Solar BIPV Project  
Installed Capacity : 200KW



Project Name : Fujian Cable Manufacturing Factory Rooftop Solar PV BIPV Project  
Installed Capacity : 450KW



Project Name : GiantKONE Elevator Co., Ltd. (Huzhou, Zhejiang)  
Installed Capacity : 3.7MW