

# BIPV SOLUTION

## AKCOME BIPV SYSTEM SOLUTION

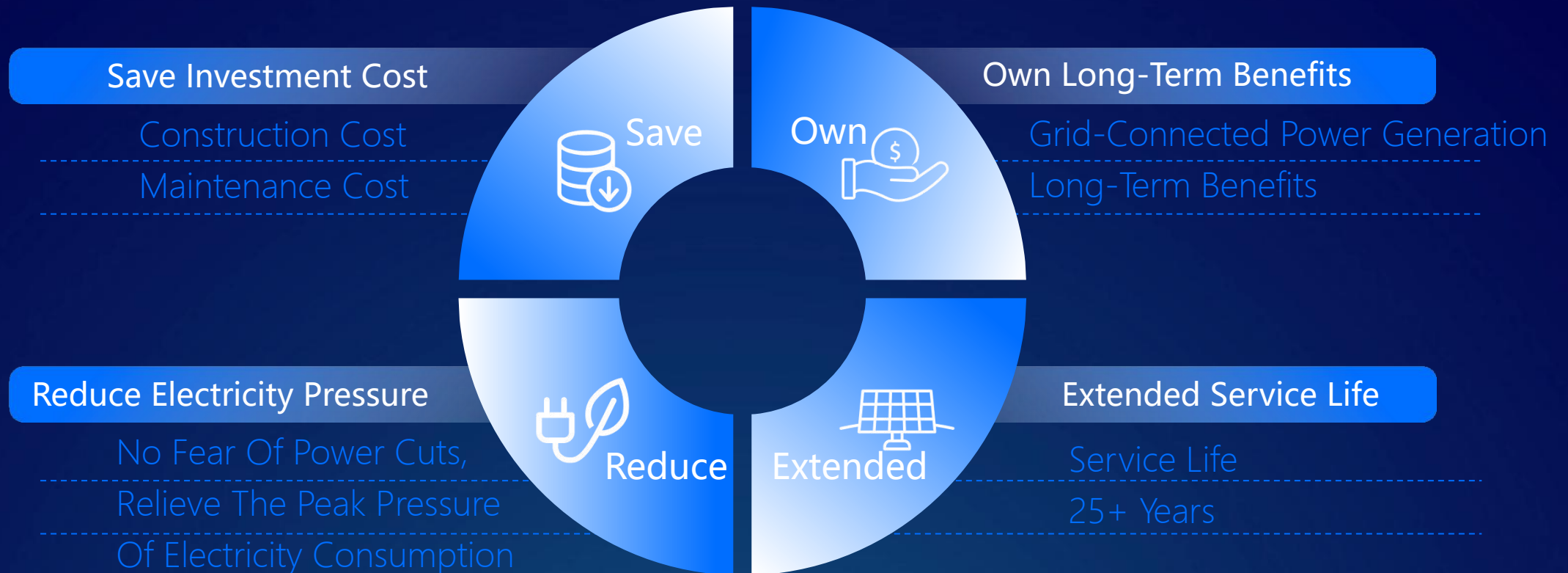
PV MOUNTING SYSTEM

Smart Mounting System · Photovoltaic New Value



# AKCOME BIPV SYSTEM

## Four Benefits Of BIPV Owners



# iCapower Contents

Akcome iCapower  
System  
—  
Product Details

Part 01

Akcome iCapower  
System  
—  
Product Advantages

Part 02

Akcome iCapower  
System  
—  
Product Display

Part 03



# AKCOME BIPV SYSTEM

## iCapower



### Industrial And Commercial Series

iCapower-R

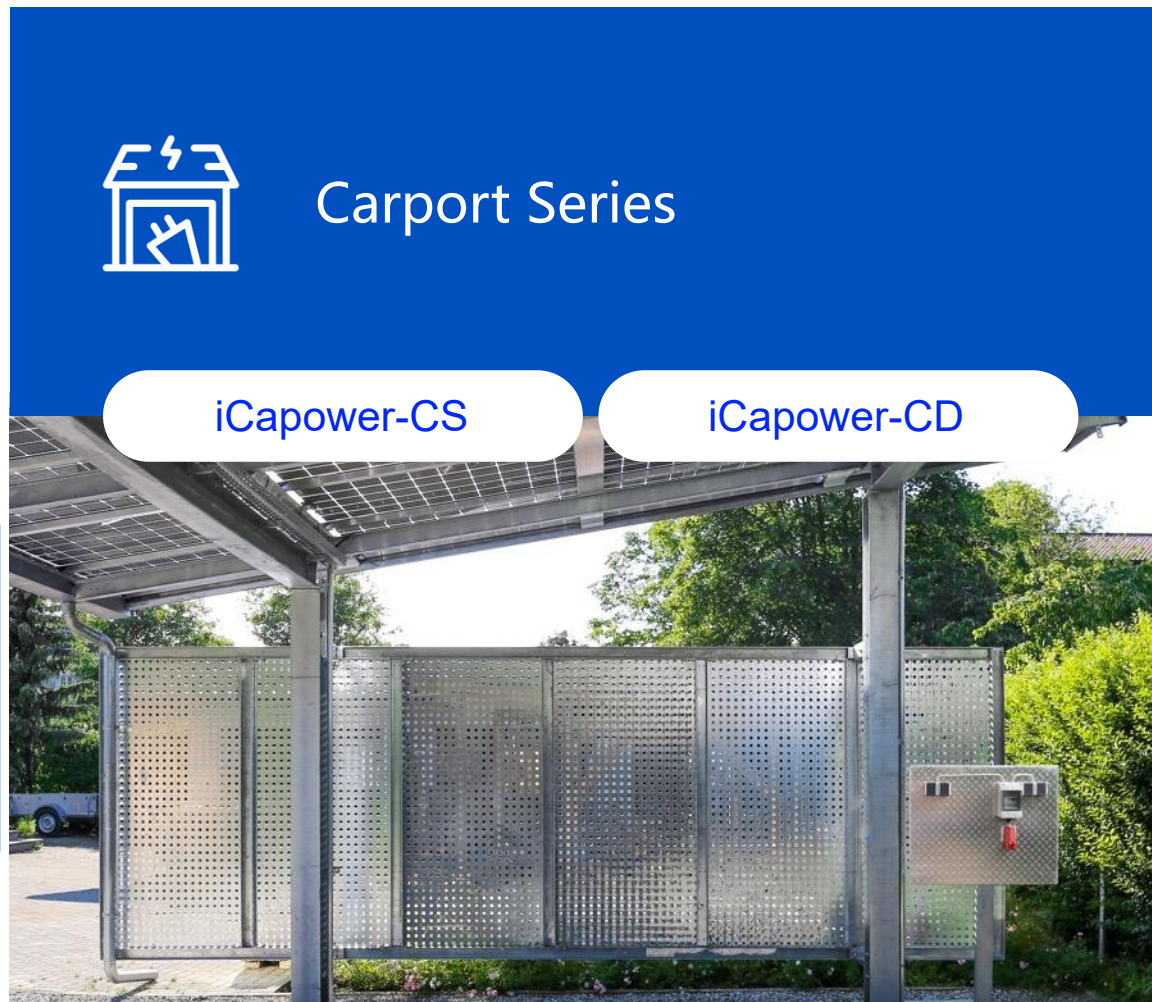
iCapower-D



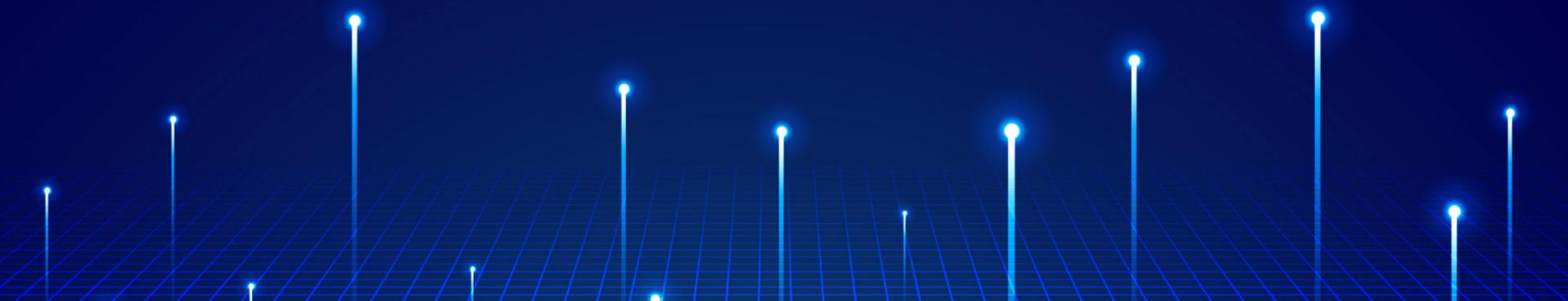
### Carport Series

iCapower-CS

iCapower-CD



Part 01  
Akcome iCapower System  
—  
Product Details





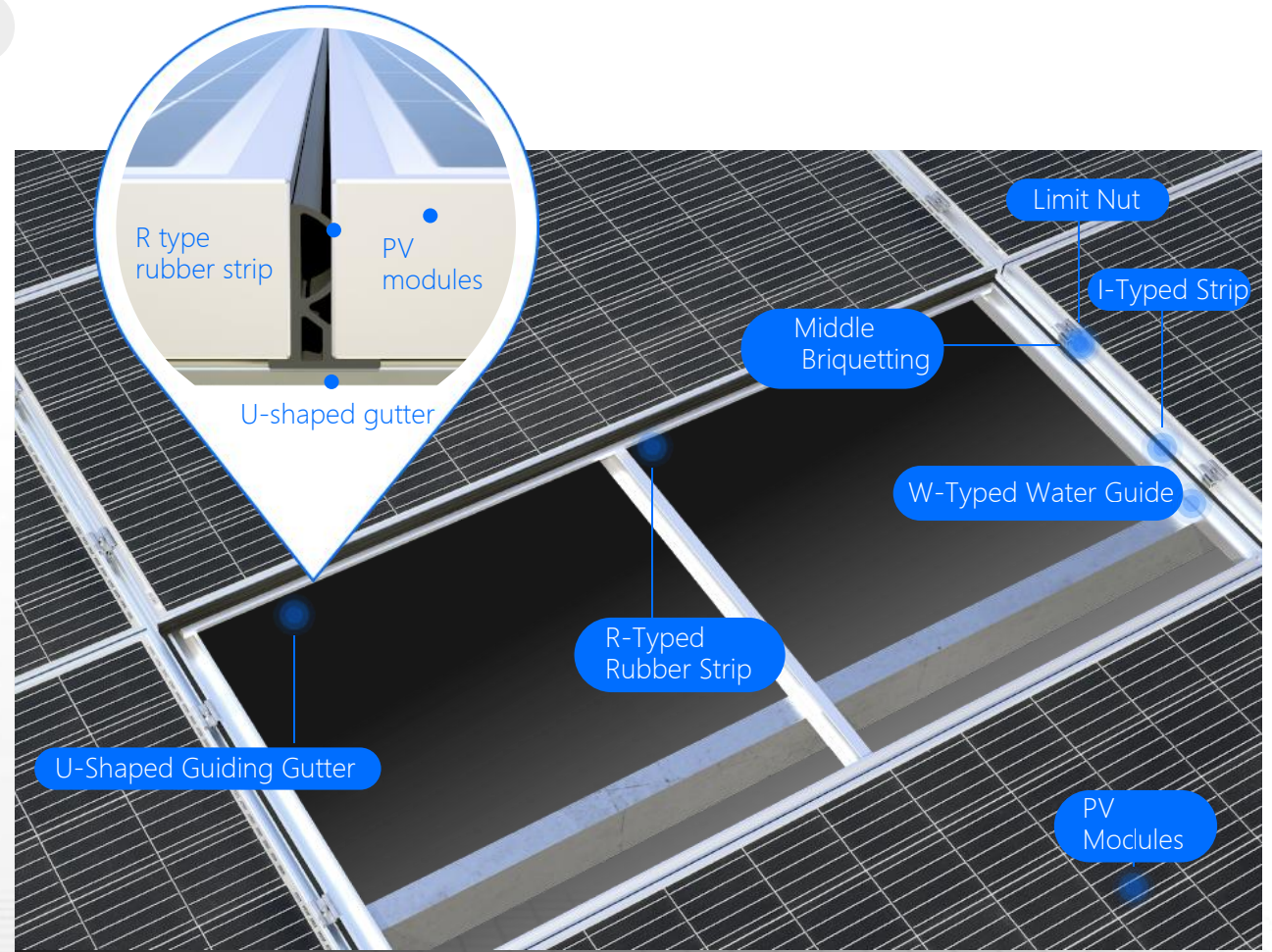
# Product Details

## Industrial And Commercial Series:iCapower-R



### Technical Parameters

Design	Mode
Vertical Waterproof	Integrated Load-Bearing And Drainage Design
Horizontal Waterproof	Independent Horizontal U-Shaped Gutter
Overlapping Method	Plug In
Structural Material	Hot-Dip Galvanized/High-Strength Steel Magnesium Aluminum Zinc Steel
Component Type	All Border Components
Obverse/Reverse System Under Pressure	5400/2400Pa
Node Pullout (Kg)	≥800
Material	S420GD
Strength $\sigma_s$ (MPa)	≥420
Tensile Strength(MPa)	520



# Product Details

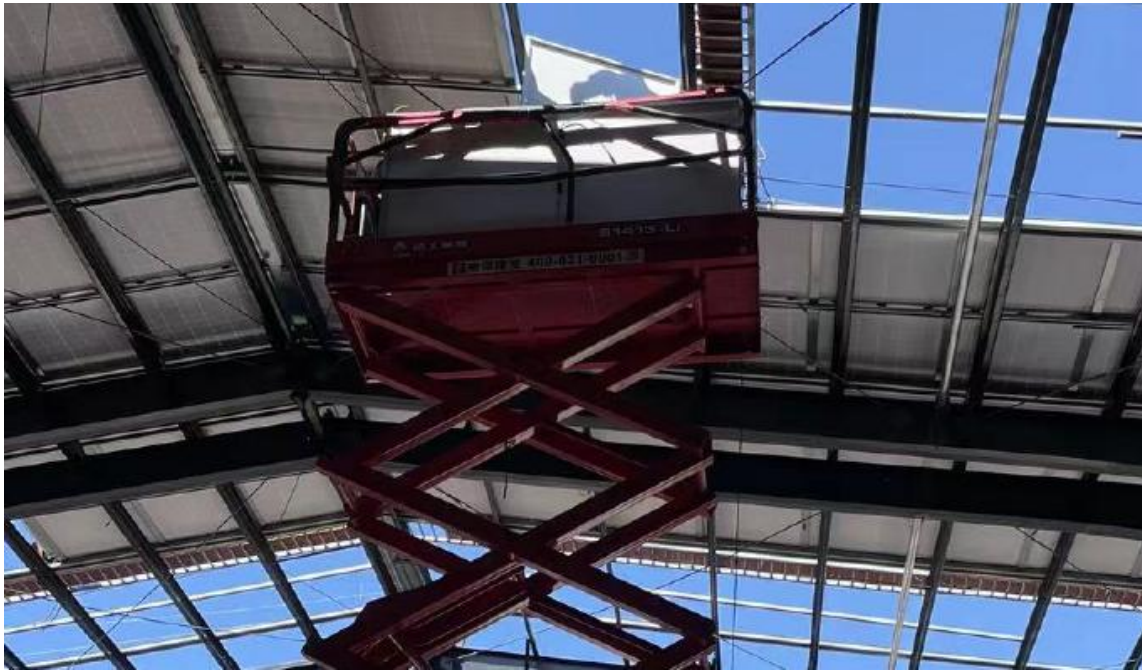
## Industrial And Commercial Series:iCapower-R



### Application Scenarios

#### New Plant Construction

The new factory building is directly covered with steel structure BIPV system, To maximize economic benefits.



#### Renovation Of Old Factory Buildings

The old factory building needs to maintain the roof and rebuild the steel structure BIPV system, Realize the organic combination of enterprise energy saving and emission reduction with economic benefits.

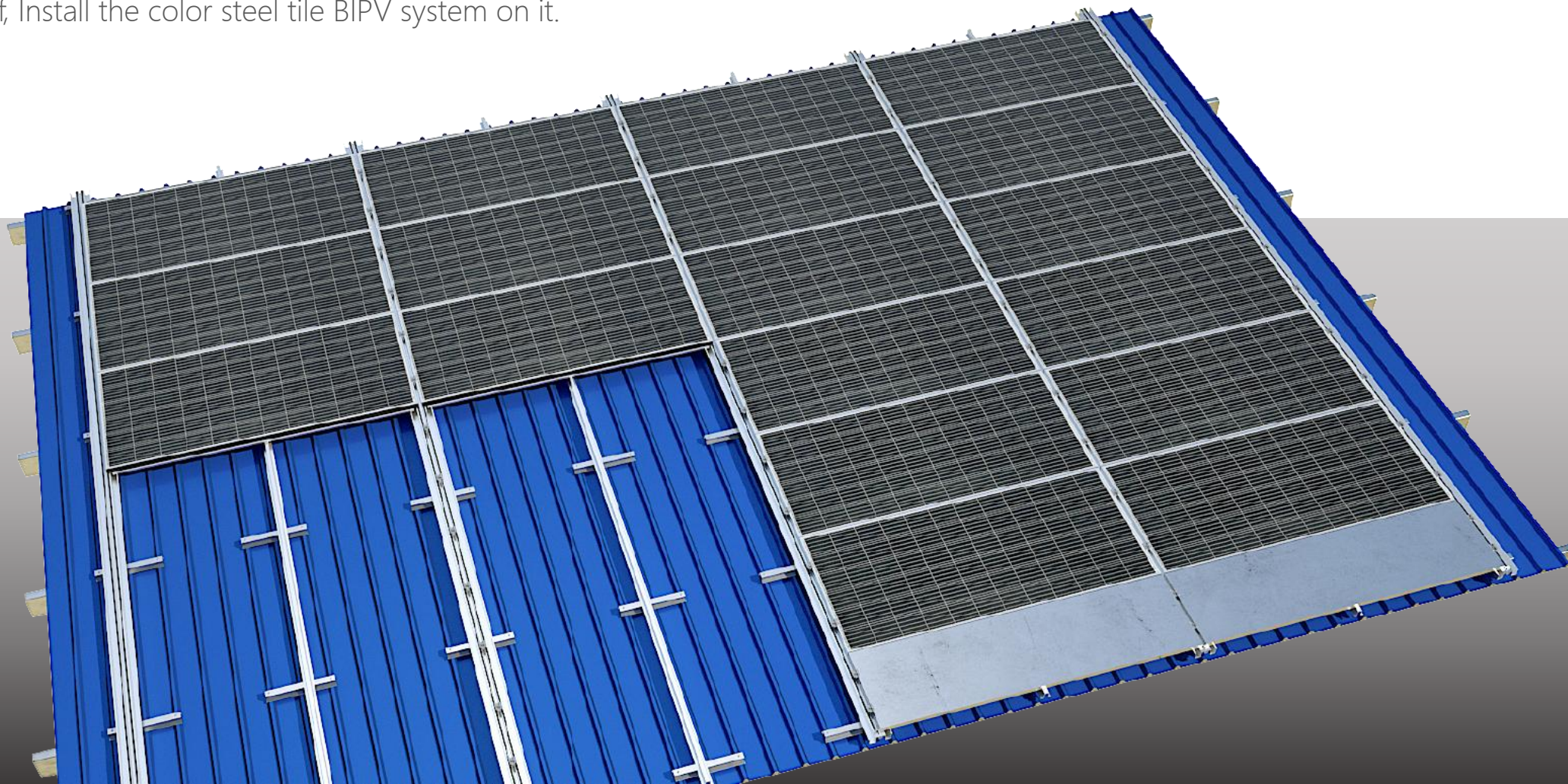




## Product Details

### Industrial And Commercial Series:iCapower-D

Add a heightening seat at the place where the W water guide groove is installed on the upper flange of the purlin on the roof; Install the color steel tile BIPV system on it.





# Product Details

## Industrial And Commercial Series:iCapower-D



### Application Scenario

#### Building On Color Steel Tile Roof

It can be covered on the original color steel tile "iCapower-D" BIPV system

Does Not Affect  
The Normal  
Production And  
Operation Of  
Enterprise

#### Building On A Concrete Roof

Capping on the original concrete roof "iCapower-D" BIPV system



# Product Details

## Carport Series:iCapower-C



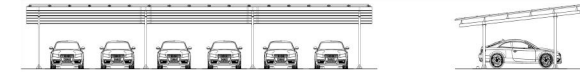
### Technical Parameters

#### Technical Parameters

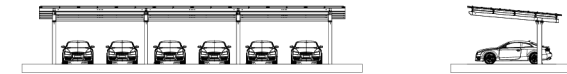
Product Series	Single Column, Double Column
The Distance From The Lowest Point Of The Module To The Ground	Usually 2500mm ( Customized )
PV Array	Horizontal/Vertical
Parking Span	2500—3000mm (Single Parking Space) 5000-6000mm (Double Parking Space) 7500~8500mm (Three Parking Spaces)
Angle	3-10 Degree
Surface Treatment	Hot-Dip Galvanized /Pre-Galvanized Magnesium Aluminum Zinc
Material	Q235B/Q355B (Main Steel Frame) +S420GD (Water Guide )
Waterproof Method	W-shaped, U-shaped Water Guide EPDM Waterproof Tape, Waterproof Gutter

#### Product Forms

Form01



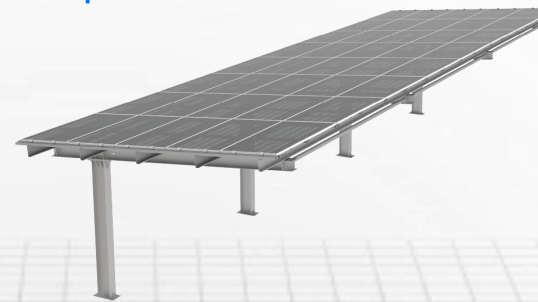
Form02



Form03



iCapower-CS



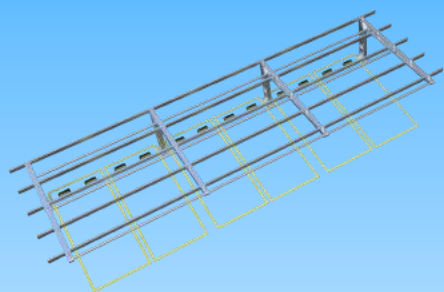
iCapower-CD



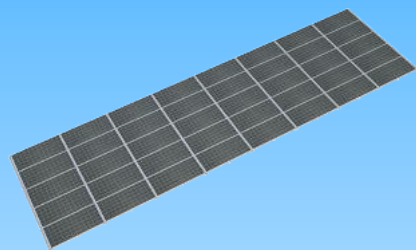


# Product Details

## iCapower-C Product Solution



Photovoltaic + Carport



Photovoltaic + Carport  
+ Charging Pile



Photovoltaic + Carport  
+ Energy Storage



Photovoltaic + Carport +  
Charging Pile + Energy Storage



Part 02  
Akcome iCapower System  
—  
Product Advantages





# Technical Advantages

## Cell Structural Waterproofing



EPDM rubber strips are tested according to the requirements of relevant national standards, and judged to be qualified according to the requirements of GB/T24498, which meets the requirements of the service life of photovoltaic power plants.

"Block + Prevent + Guide" Ensure That  
Each Component Cell Is 100%  
Waterproof

### Block

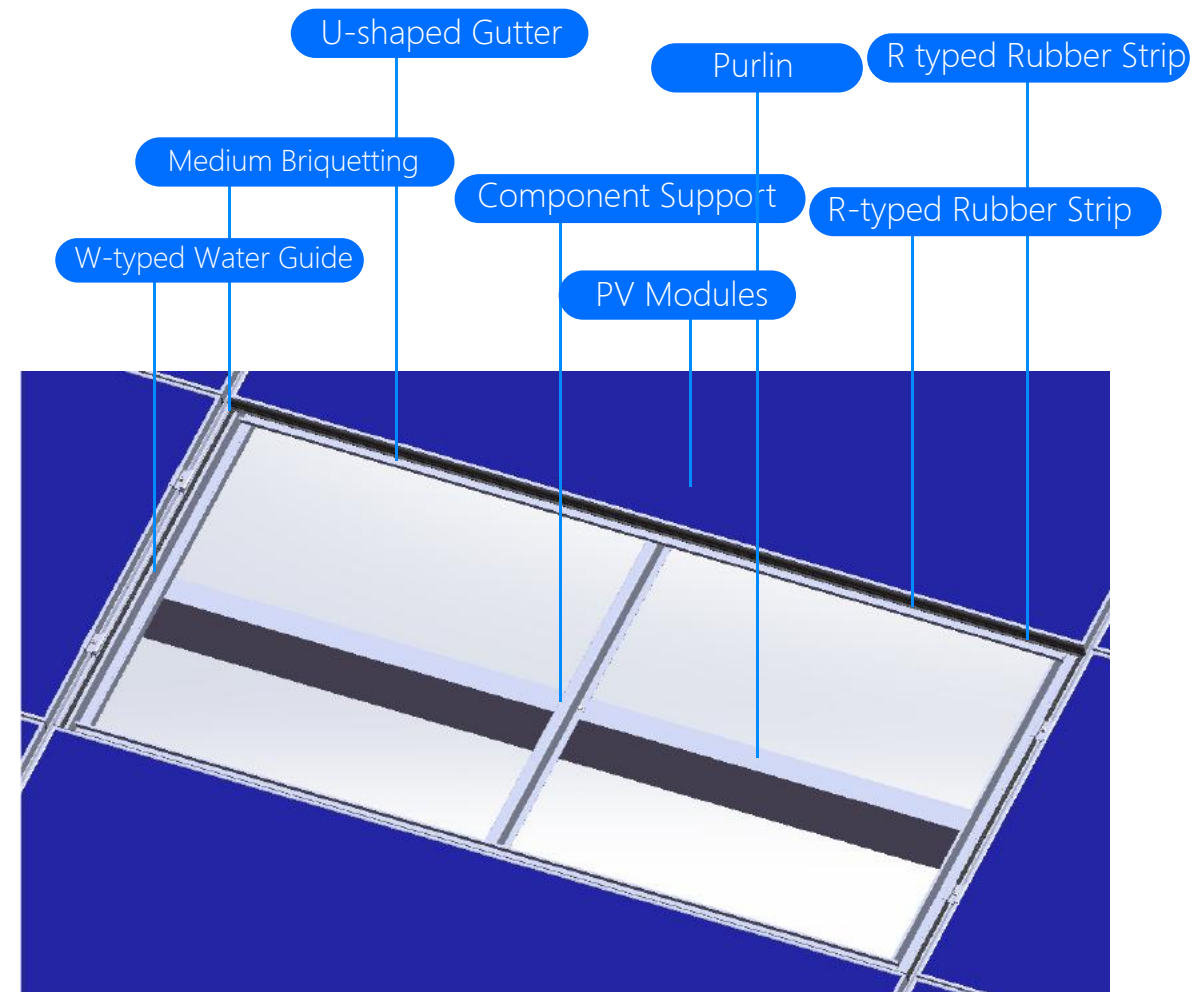
EPDM rubber strips are installed in the horizontal and vertical gaps of the modules to block a large amount of rainwater on the surface of the modules and flow into the original drainage system of the building by gravity;

### Waterproof

Only a very small part of the rainwater seeps through the sealing strip and flows into the horizontal and vertical water guide grooves of the module;

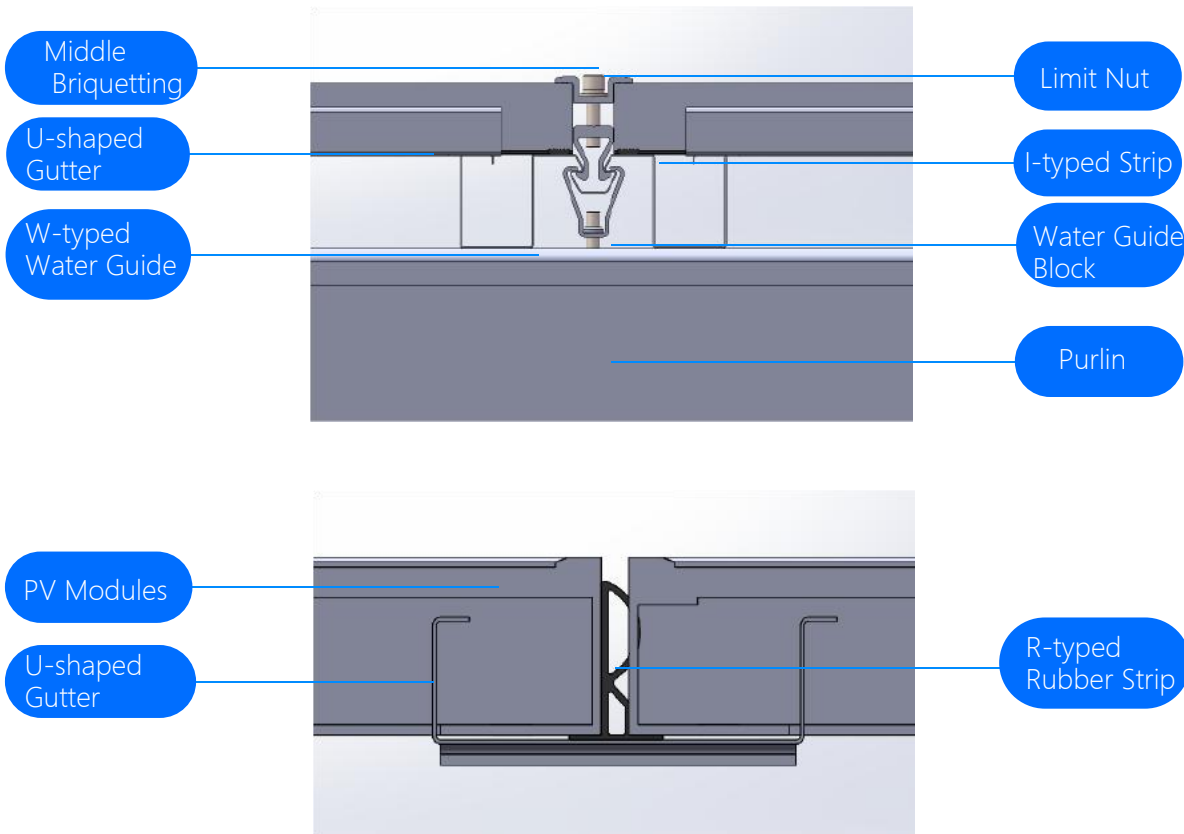
### Guide

The horizontal water guide channel merges into the vertical water guide channel, and then flows into the original drainage system of the building.



# Technical Advantages

## Comprehensive Technical Support



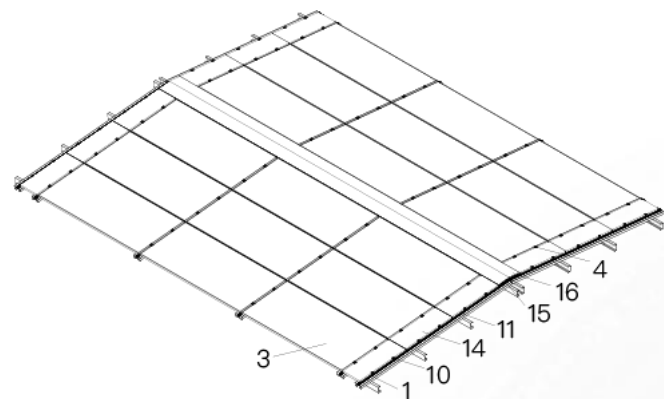
Design Points	Structural Role	Reality Application
Mainly W channel force member	The system bears 5400Pa on the front and 2400Pa on the back	Anti-wind pressure, snow load
When the component is fixed, it is fixed with the longitudinal water guide groove of a specific section through the adapter nut	No punching required	Reduce the risk of water leakage
Between components and W sink With I-type rubber strip	Anti-shock and anti-slip + sealed and waterproof	Against extreme weather; Reduce the risk of water leakage
Vertical sink adopts block fixed	Shear resistance: prevent the thermal expansion and contraction of the water guide channel from causing fixed failure	The system is more stable, longer life
Water guide bottom fixed	Tensile resistance: in the case of suction, the force is good	Withstand super typhoon
The middle part of the component adopts "几" font shape support	Prevent subsidence in the middle of the component	Prevent component cracks and water leakage
High-strength magnesium-aluminum-zinc plating; new material	Extremely high corrosion resistance, higher strength	Longer service life, save maintenance cost



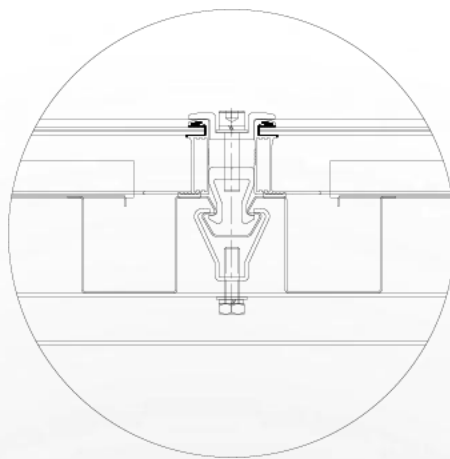
# Technical Advantages

## Supported By Multiple Design Patents

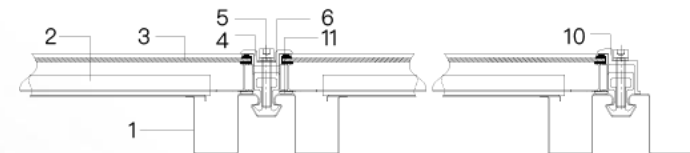
A photovoltaic building integration Waterproof system patent



A connection structure patent for the water guide groove at the bottom of the photovoltaic module and the roof



A connection structure patent for photovoltaic modules and their bottom water guides



# Technical Advantages

## Strong Integration And High Adaptability



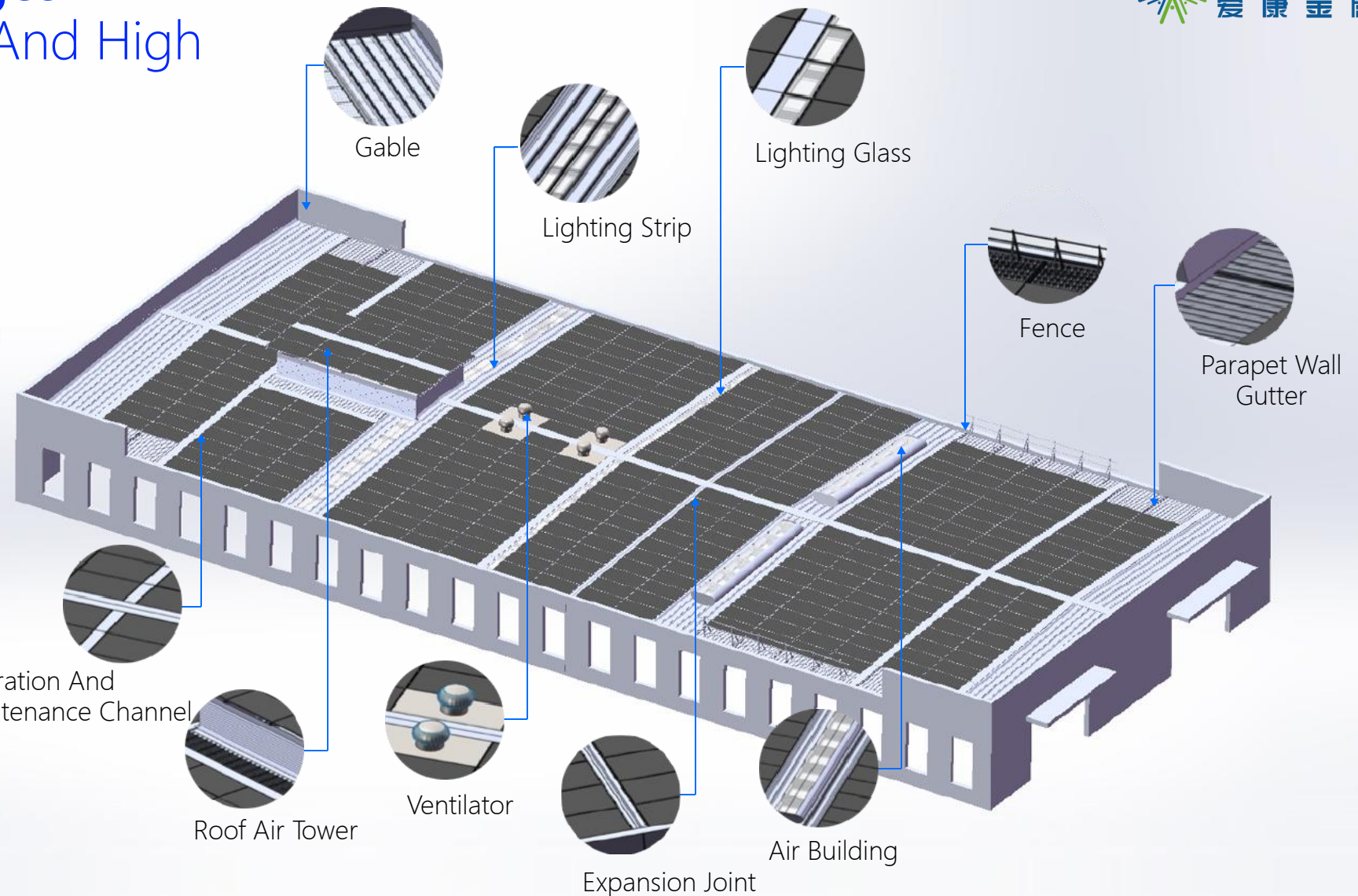
### Good Lighting And Ventilation

Optional exclusive lighting system,  
Fully meet the building functions.



### Strong Integration Ability

Compatible with various  
frame components



# Technical Advantages

## High-Quality Access Pedals



### Economical

Special Connection Process



### Neat

Material Appearance  
Customization



### Safety

Q420 High-Strength Steel  
With Reinforcement





# Advantages Of Investment Income



Higher  
Return On  
Investment





### Localization

- More Than 80 Countries And Regions Around The World
- Localized Service Network Coverage
- 1 Hour Response, The Fastest Arrival Within 1 Day



### Customization

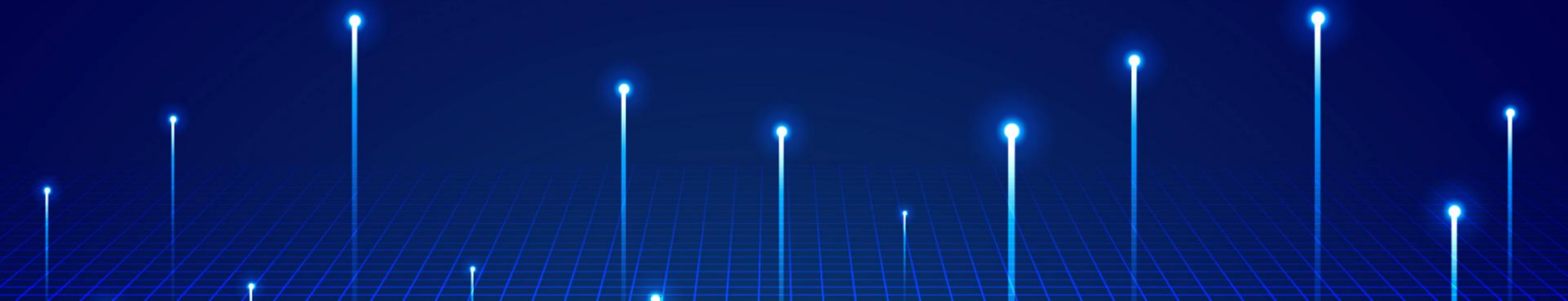
- According To The Project Scene
- Customized Products According To Customer Needs



### Full Cycle

- System Design
- Structure Optimization
- Professional Installation
- More Than 25 Years Of Service Life Guarantee
- Full Cycle Service

Part 03  
Akcome iCapower System  
—  
Project Cases





# Akcome BIPV System Project Cases



Ningbo · Zhejiang



# Akcome BIPV System Project Cases



Yichun · Jiangxi



Zhangjiagang · Jiangsu

# THANKS!



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