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**TRACK THE SUN FOR BETTER WORLD**

**Jutracker**  
聚之义



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**TRACKER | FLOAT | BIPV | ROOF**



## Intelligent solar tracking system



### Characteristic

#### Reliability

Mature technology > 10 years

#### Adaptability

Improve energization, suitable for 600W components

#### Quick installation

Fewer parts, more quick installation

#### Cloud control

Tracking automatically, intelligent calculation

### Reliable-Jutracker@BiT

#### Reliable design

>Designed with fewer electronic sensors to achieve the longest safe operation time in the industry.

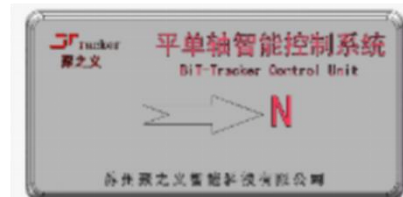
>The BiT Jutracker,used the fewest fasteners to reduce installation and greatly save construction fee.

>Parts structure design and testing under strict conditions, withstand at least wind pressure 2400Pa.

#### Zero maintenance

>The sealing and self-lubricating design of the driving rotating mechanism,can realize free maintenance equipment.

>The tracker is automatically calibrated daily to ensure always the components with the best tracking angle.



## BiT-1P Tracker system



## BiT-2P Tracker system



### Basic Parameters

Tracker Type	BiT-1P 2P Horizontal single axis (E-W)
String voltage	1500V
layout	Single row/double row/Vertical installation
Number of module per tracker	Maximum 120 (3 strings)
drive type	Rotary device
Motor type	24VDC motor
East-west/north-south dimensions	According to site/componen
Array height	At least 1.5m above the ground (distance from the module to the ground is 0.5m)
Ground coverage	Flexible, typically 30% – 50%
Module type	Maximum module size (L=2.3m*W=1.2m) ,
Tracking range	±60°
Operating temperature	-25° C to 65° C
Foundation type	Steel pile, screw pile, concrete foundation
Module installation method	Bolt tightening
Structural material	Galvalume/Aluminum magnesium zinc plate
Allowable wind load	Gale protection 150km/h, Gust protection 3s; Operating wind speed 80km/h; Design for higher wind speeds
Saposhnikovia divaricata	Passive Mechanical System Relieves Wind And Obstruction Damage — No Power Required
Grounding type	Self-grounding Structure
Corrosion grade	Standard C3/C4和C5 (based on requirements)
Protection grade	IP54/IP65 (According to requirements)
Maximum slope	N-S 15° ; E-W unlimited

### Electrical Parameters

Solar tracking method	Astronomical algorithm (no shadow)
Control equipment	TCU NCU
Data feed	NCU connects to SCADA via Ethernet
Function for Wind protection to lay model automatically level at night	Yes
Tracking Accuracy	±1° standard, adjustably on the site
Power	String power supply, standby battery power supply
Communication	Wireless Lora® Network/SCADA (485 cable communication is optional)

### Installation , service and availability

Structural calculations and drawings	Yes
On-site training and commissioning	Yes
Connection mode	Bolted connection,without welding
On-site processing	No need
Bearing Lubrication	By self
Availability	≥99%

### Others

Daily power consumption for tracker	Less than 0.2kw/hour
Increase irradiation than fixed type	Above 25% (Based on location)
Warranty	10 years for structure, 5 years for quipment.
Codes and standards	IEC 62817/UL 2703/ UL 3703/ASCE 7-10/CE





Israel 22MW  
Just Float

## Product introduction

-  >Optimize number and type of production
-  >Material test, strengthen weathering test
-  >Proprietary material formula
-  >Enhanced floating body and connector
- >Reduce cost for transportation and installation
- >Using period for 25 years, warranty for 10 years
- >Resistance to aging, humidity and heat, corrosion
- >Strong wind resistance

**High efficiency**

- > Optimize Solutions for specific regions.
- > Manufacturing process Assembly line to ensure that the system price is competitive.
- > Increase the power generation by natural cooling effect of water.
- > Accelerate development of product.

**Reliability**

- > Uv resistance HDPE.
- > Withstand extreme wind conditions.
- > Special anchorage system designed based different condition.
- > Tested in the laboratory and practice around the world.

**Easy and fast**

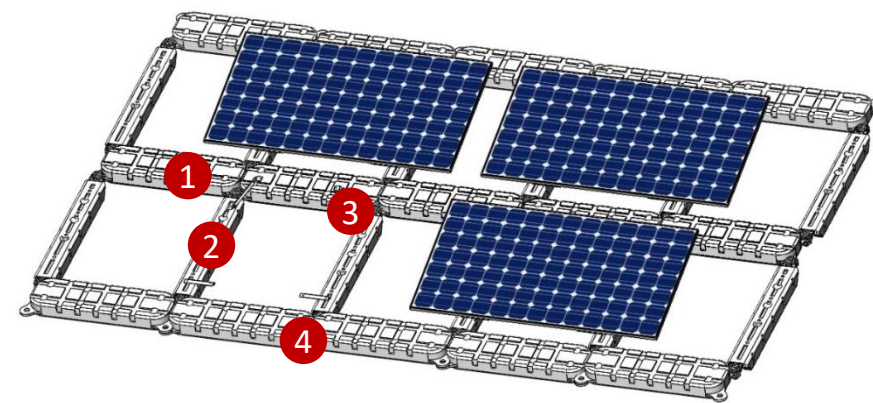
- > Modular design for all power levels and electrical configurations.
- > Compatible all kinds of photovoltaic power generation equipment.
- > Quick and easy assemble, and does not require any tools or heavy machinery for installation.
- > Safe and simple operation and maintenance.

**Economic and environmental protection**

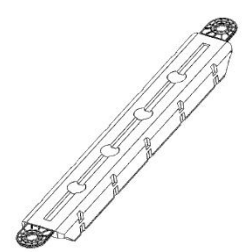
- > Meet the drinking water standard.
- > Suitable for freshwater, seawater and other natural bodies of water.
- > No a negative impact on the environment and improve it.
- > Reduce evaporation, preserve water, protect ecosystems.



Basic Parameters	
Type	Just-Float 2
Installation location	Lake, Reservoir and offshore
Module Angle	5° ~12°
Wind load	42m/s
Snow load	1kN/m2
Module Type	Maximum Module size (L=2.4m*W=1.4m)
Layout	Horizontal installation, Single row channel, double row channel, four row channel
Floatmaterial	HDPE
Fastener material	T6065/ SUS304
Load bearing capacity	>100KG/m <sup>2</sup>
Temperature	-40° ~85°



- 1、 Main float
- 2、 Secondary float
- 3、 Component installation accessories
- 4、 Connection Pin



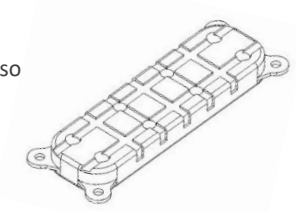
**Float A**

Function: Support PV module so that the module obtains the desired Angle

Material: HDPE

Manufacturing process: Blow molding

Dimensions: 1480\*200\*150mm



**Float B**

Function: Connected with the main float as a maintenance channel

Material: HDPE

Manufacturing process: Blow molding

Dimensions: 1250\*400\*150mm





34MW  
JUST BIPV

## Product introduction



- > Multi-layer water guide, optimize water diversion scheme
- > Waterproof performance well



- > Material test, Strengthen weather resistance testing
- > Using period for 25 years, warranty for 10 years



- > Modular
- > Fast installation



- > Structure optimization and safety protection
- > Strong wind resistance

### Optimal structure design

- > Simple structure and quik installation
- > Parts standardization
- > Supply goods in batch to Guarantee material suppling progress

### Weather fastness

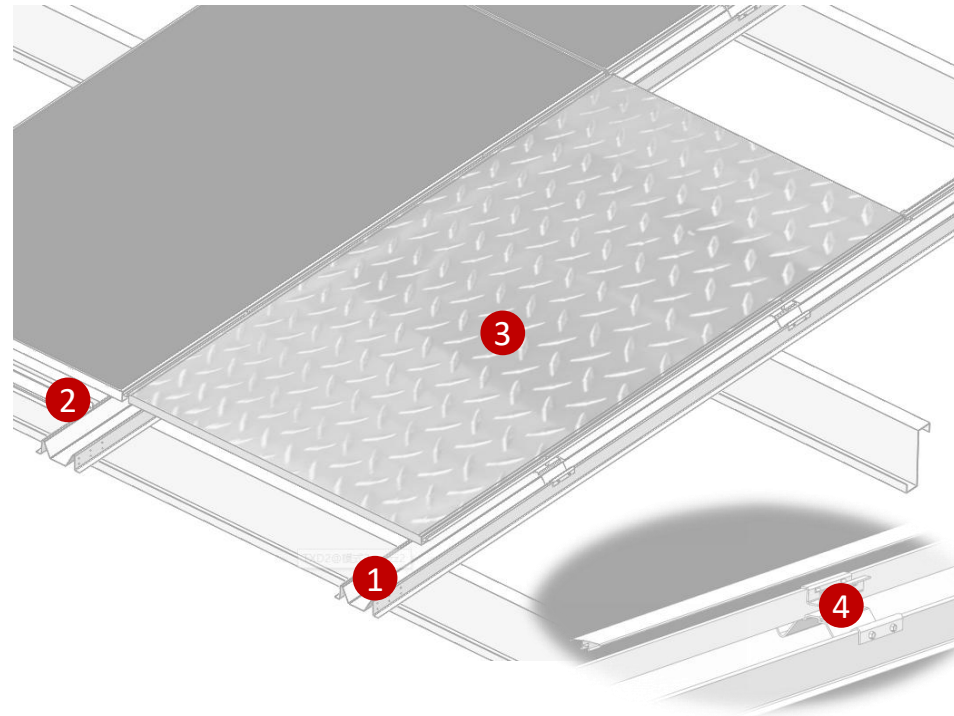
- > Aluminum magnesium zinc plate, Al alloy
- > All fasteners are made of stainless steel
- > Guarantee the safe and waterproof

### Safe and protection

- > High-strength materials
- > Design to make up the risk of installation and operation
- > Steel clamp for module installation

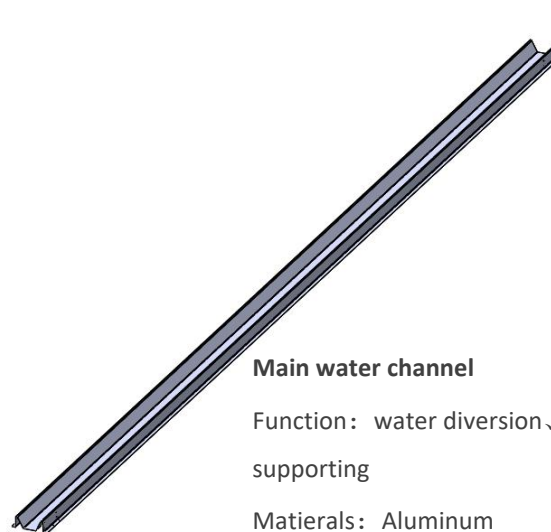
### Economic and environmental protection

- > Materials are friendly for environment.
- > Friendly matierals are recyclable.
- > Simple construction material



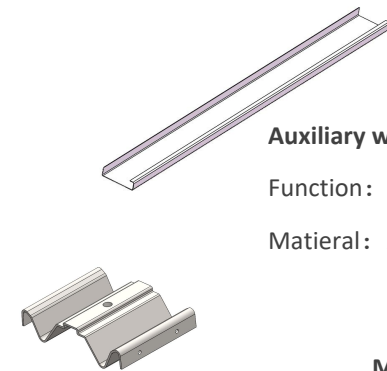
- 1、 Main water channel
- 2、 Auxiliary water channel
- 3、 Gangway board
- 4、 Upper cover, middle cover, middle support plate

Basic Parameters			
Type	JUST BIPV	Layout	Horizontal and vertical
Installation location	Steel roof	Snow load	1kN/m2
Installation angle	Based on roof slope	Module type	182/210 module
Wind load	40m/s	Matierals for fasteners	SUS304
Wind load	MAX (L=2.4m*W=1.4m)	Warranty	Using period for 25 years, warranty for 10 years
Matierals	Aluminum magnesium zinc	Working temprature	-30° ~50°



**Main water channel**

Function: water diversion, supporting  
Matierals: Aluminum magnesium zinc



**Auxiliary water channel**

Function: Water diversion  
Matieral: Aluminum magnesium zinc

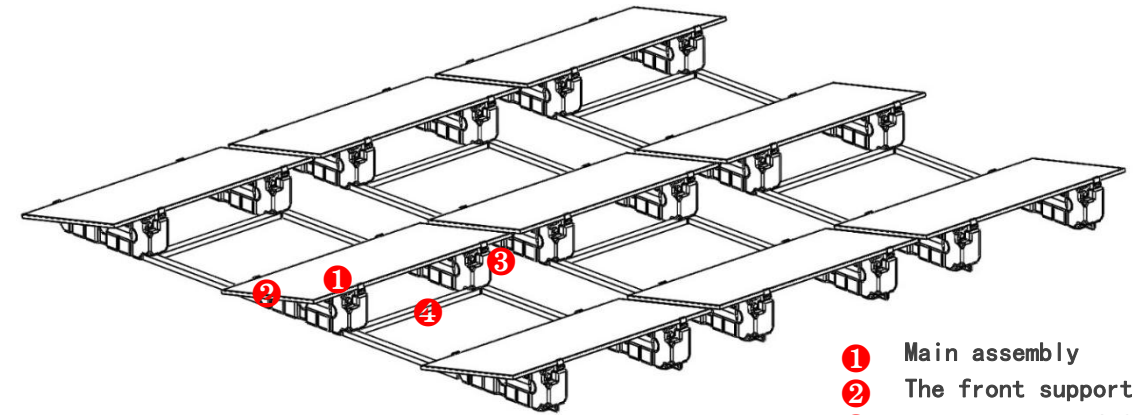
**Middle support plate**

Function: supporting, fastening modules  
Matierals: Aluminum magnesium zinc

**Middle pressure plate**

Function: supporting, fastening modules  
Matierals: Aluminum magnesium zinc





- ① Main assembly
- ② The front support leg
- ③ Fixing clamp of Component
- ④ Connecting rod (optional)

## Product introduction



> Integrated design, fast installation  
> Reduce the costs of installation and operation and maintenance



> Material test, strengthen weathering test  
> Using period for 25 years, warranty for 10 years



> Proprietary material composition  
> Aging resistance, damp heat resin, Corrosion resistance



> Structure optimization and Connector design  
> Strong wind resistance

### High efficiency

Speed up project development and design progress  
Assembly quick and simple, no need Special tools or heavy machinery.  
Water as ballast, achive to convenient construction.  
Be easy and safe for operation and maintenance.

### Safe and reliable

HDPE, anti ultraviolet, anti-aging and salt fog, sevice life is longer.  
Loaded Scheme is tested, can resist extreme wind speed  
Design reinforced bottom and connector, more firm and reliable  
Material testing from Laboratory,site inspection

### Module design

Be suit for all kinds of power level and Modular design of electrical configuration.  
Compatible all kinds of photovoltaic power generation equipment.  
Optimization solution for special area.  
Assembly line production,reduce the cost.

### Economic and environmental protection

Environment-friendly material, be meeted water Consumption standard  
Recyclable.  
Simple construction material, be friendly for environment.

### Basic Parameters

□ Type	JUST ROOF-R2	□ Layout	Horizontal
□ Installation location	Concrete level roof/Ground	□ Weight	<10kg / set
□ Installation angle	12°	□ Snow load	1kN/m <sup>2</sup>
□ Wind load	40m/s	□ Module type	182/210 module
□ Module type	MAX (L=2.4m*W=1.4m)	□ Maximum water load	45KG/set
□ Loaded type	Loaded water	□ Fastener metiarals	AL6063-T5
□ Matierials	HDPE High Density Polyethylene + Resist UV Anti aging materials	□ VOL	6 set/m <sup>3</sup>
□ Body size	1150mm*410mm*230mm	□ Recoverability	Yes
□ Installation time	<1 min/ set	□ Wanrranty	Using period for 25 years, warranty for 10 years
□ Working temprature	-30° ~50°		



### Characteristic

Integrated design, fast installation  
Aging resistance, damp heat resin,  
Corrosion resistance  
Anti-freezing and anti-high temperature  
loading water quickly and convenient



### Flexible layout, more artistic

Flexible layout on irregular areas  
reduce the cost for design  
reduce the wind load  
more high strength and high stability design  
Module type □182 □210



RoHS



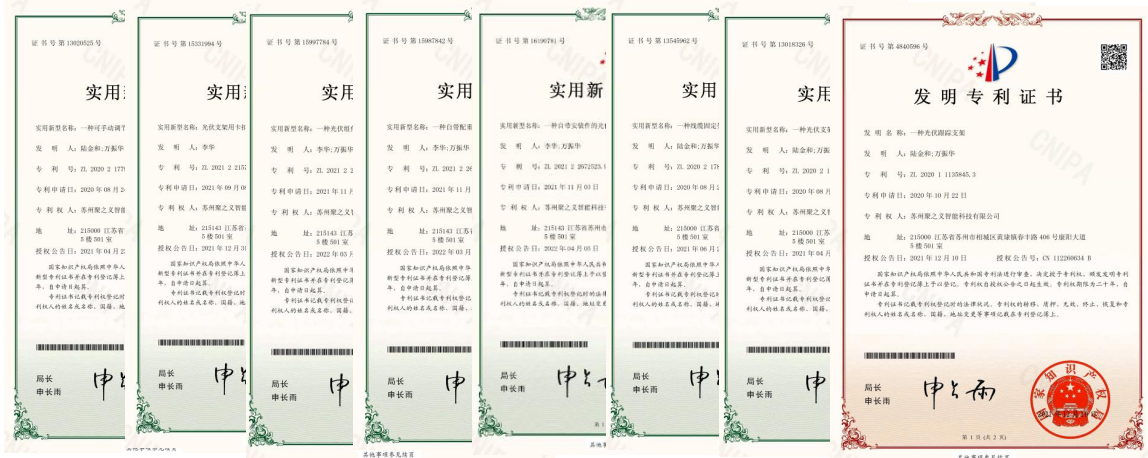
Suzhou Jutracker Technology Co.,Ltd., mainly operate on research, design and sale for Just tracker, Just roof, Just BIPV, Just float. As manufacturer and provider of solutions ,Jutracker have been the leader of photovoltaic structure in the world.

Headquartered in Suzhou, we have technical service centers and manufacturing bases in countries such as Shanghai, Beijing, Tianjin, Xiamen, Hong Kong, South Africa, etc. Research and technological reserves exceeding 10 years.

The company is committed to provide efficient, innovative, large-scale products and services for PV industry. improving the power generation efficiency of PV stations, reducing the cost of kilowatt-hour electricity, provide high value, clean and reliable solar photovoltaic power generation system for customers.

The team has rich experience on covering PV industry, mechanical structure, electrical control system, engineering design, project management. Jutracker has successfully installed nearly 100 projects in 10 countrys around the world , installation volume have reached to nearly 2GW.

Member of Global Tracking structure System Standardization Technical Committee, member of China solar photovoltaic energy system Standardization Technical Committee.



**Compliance Doc**  
No. D 111352 0001 Rev. 0

Holder of Certificate: SU TRACKER

Product: JUST ROOF PVI

Model(s): J1

Tested according to: EN 12210

Test report no.: 70

Date: 2021-04-27

**测试报告**

编号: 70.007.22.151.01-00  
日期: 2022-07-06  
页码: 1/12

苏州聚之友智能科技有限公司  
Suzhou JUTRACKER Intelligent Technology Co., Ltd  
中国江苏省苏州市相城区漕湖街道206号  
No.206 Kangqiang Road, Xiangcheng District, Suzhou City, Jiangsu, P.R. CHINA

产品型号: JUST ROOF PVI (光伏跟踪材料跟踪器, 11A型)  
规格型号: 1100 mm\*900 mm\*150 mm

测试要求: 材料测试, 外观检查, 跟踪精度和跟踪时长测试, 跟踪精度测试, 干冰条件测试, 冷热循环测试

报告日期: 2022-07-06

测试日期: 2022-03-31~2022-05-11

测试结果: 通过

测试结论: 1. 跟踪材料在干冰条件下跟踪精度符合设计要求; 2. 跟踪材料在冷热循环条件下跟踪精度符合设计要求。

测试报告人: [Signature]

授权签字人: [Signature]

2022-07-11

**测试报告**

编号: WIND15191-00  
日期: 2022-06-06  
页码: 1/12

英国标准测试  
BRITISH STANDARD TESTIN

NON-METALLIC MATERIALS FOR USE WITH C (BS 6828: 2014)

TEST REPORT

Product: Hydralis™ 40m and Small FC  
Report Reference: SU 032652  
Page 1 of 6 Pages

Client: Terra International  
SU, 4th Floor, Plot 1  
50055 Hellenweg  
PTTANG

Report Date: 28<sup>th</sup> June 2015

Executive Summary - when assessed by the methods given in list of this product are deemed suitable for use in contact with water in accordance with the following conditions:  
1. The water is not aggressive to the product.  
2. The water is not acidic (pH > 4).  
3. The water is not alkaline (pH < 10).  
4. The water is not saturated with sulphur dioxide.  
5. The water is not saturated with carbon dioxide.

PREPARED BY:  
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St Leonards NSW 2234  
Tel: +61 (0)2 9551 2000  
www.cppwind.com

Huaian 12MW



Shangyi, Hebei 72MW



Shenmu, Shanxi 37.6MW



South Africa 10MW



Israel 11.5+35MW



Qinghai province 50MW



FuNing, JiangSu, 30MW,



Henan, China 10MW



Yulin, Shanxi, 52MW



Anhui Province, 34MW



Jiangling, Hubei 78.2MW



Lianghuai 41MW

