

## iPV Tracker

Precise Tracking of the Sun



## 太陽光電集團

*Big Sun Group  
Co., Ltd.*

### ▶ About Big Sun Group

Established in 2006, Big Sun Group Co., Ltd provides EPC installation, construction, and maintenance projects to domestic solar power stations. In addition, the group provides dual-axis solar iPV Tracker and iPVita Energy Cloud Management System that monitors solar equipment in real time. The corporation focuses on being a solar power technology pioneer and solutions provider in system services among the green energy industry.

Currently Big Sun Group is strongly committed to expanding iPV Tracker in services relevant to global licensing, and promoting the “One terrain with multiple yields” concept, enabling the system naturally coexist with the environment. With Taiwan as the starting point, the corporation will continue to expand services relevant to global licensing and make contributions to green-energy industries and sustainable economy across the world.



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## ▶ iPV Tracker



iPV Tracker is the firm's representative product which raises solar power efficiency and balances the power grid. It allows continuous flow of solar energy to transform into daily power consumption in an economical and efficient manner.

The patented cable-driven dual-axis solar tracking system features 360° rotation angle and has a sturdy structure. In addition to its reliability, its weather resistant features could also lower maintenance and operating costs.

This system could combine the high-efficiency, bifacial module and various different application solutions that could maximize solar photovoltaic power capacity, lower unit power costs and fulfill daytime power supply curve of the power grid. Furthermore, when combined with iPVita Energy Cloud Management System, it could achieve high availability, becoming the new generation of smart solar photovoltaic system.



**Universal Joint**

Set up dual-axis on the pillar, so the platform could rotate in 2 directions.



**Cable**

The platform is shifted by 4 corners, and could assist in kinetic equilibrium of the product.



**Spring**

The shock absorbing function could assist in raising its wind resistance.



**Reel**

Accurate tracking within  $\pm 0.5^\circ$  deviation.

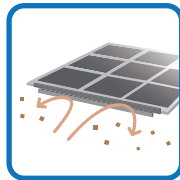
## ▶ Product Features

### Weather Resistance



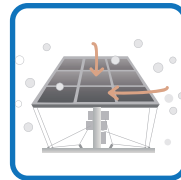
**Wind Resistant**

When the wind speed reaches certain magnitude, the solar panel changes into safe mode, lying flat to reduce its wind affected area.



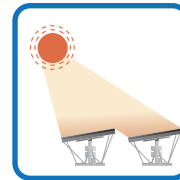
**Dust Removal**

The panel could adjust the tracking and tilting position based on the varied wind direction of seasons, in order to reduce the accumulation of sand and dust.



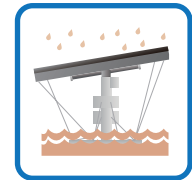
**Snow Removal**

The solar panels could be set to tilt to the fullest extent and rotate, so the accumulated snow could slide off.



**Back Shading**

Solar panels are tilted to the largest angle in order to prevent mutual shading, and could absorb the most sunlight and raise the land usage rate.



**Flood Avoidance**

The possibility of malfunction by flooding and flood impact under extreme weather is lowered by designing the height of main electric motor control components, such as motor and controllers, more than 1.5 meter.

### iPV Tracker Global Licensing Services

Striving for transformational development, Big Sun Group mainly focuses on global technology licensing of iPV Tracker. Furthermore, the corporation works with global partners to mutually implement the system and promote the "One terrain with multiple yields" concept which supports ecological coexistence.

Companies and partners that received licensing permissions are able to design the tracker based on their specific needs, and could use the iPV Tracker cable-driven technology, a key point to the system. The corporation could accelerate sales speed of the iPV Tracker by using diverse ways of collaboration.

Big Sun Group has already expanded on the recruitment of licensees around the world. Licensed iPV Tracker with its "One terrain with multiple yields" model has already successfully applied globally and receiveds great feedbacks, this reduces carbon emissions, improves the international environment and contributes to the sustainable economy.

