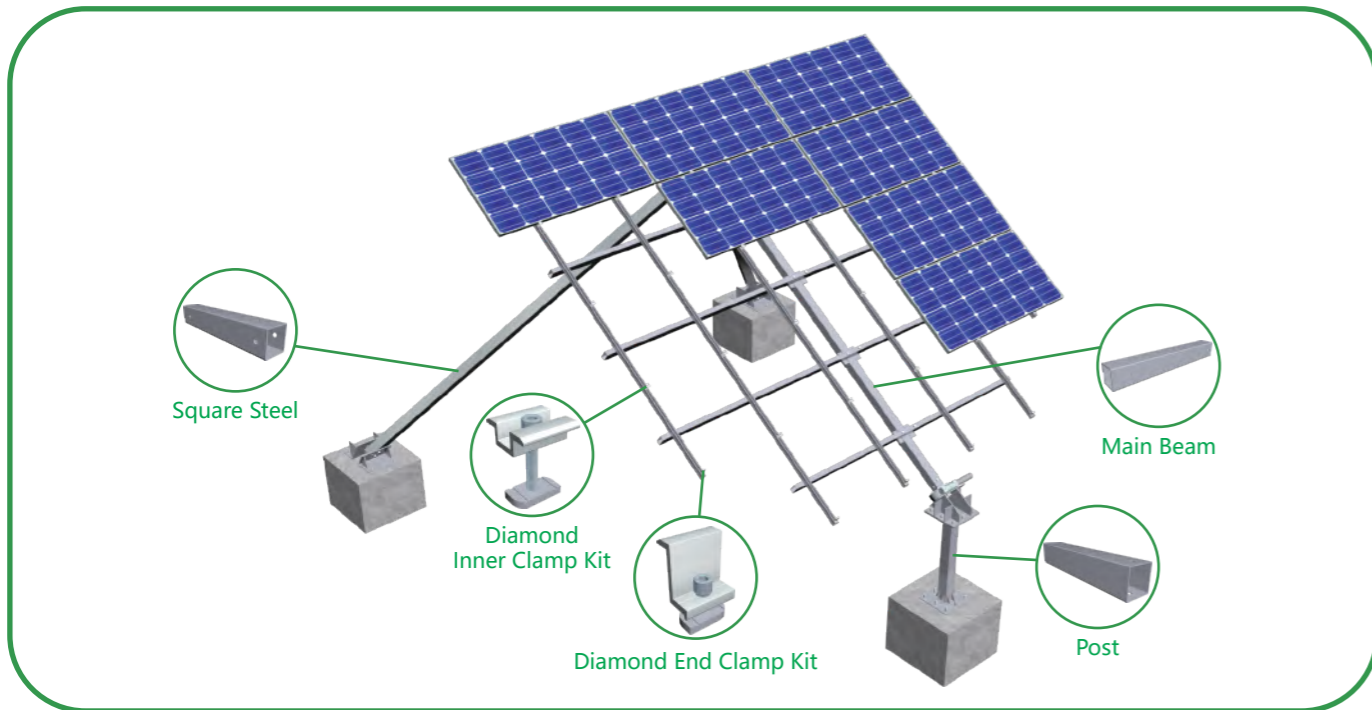


# MRac<sup>®</sup> Smart Tilt Single Axis Tracking Solar PV Mounting System



## Technical Parameters

GPS Module	Acquire longitude, latitude and accurate time automatically, and be compatible with Beidou Satellite Positioning System	Support Model	Wind protection, Snow removal mode, Rain cleaning mode
Install Capacity	< 10KWP		Position return mode
Tracking Angle	±45°	Driving methods	Slewing Speed Reducer
Max Wind Resistance	<22m/s	Material	Q235B(HDG)&AL6005-T5
Tracking Algorithm	Astronomical, Algorithms +Tilt Sensors	Control System	Microcomputer
Ground Clearance	400mm+	IP grade	IP65
Power Supply	DC24V	Warranty	10-Year Warranty

## Overview

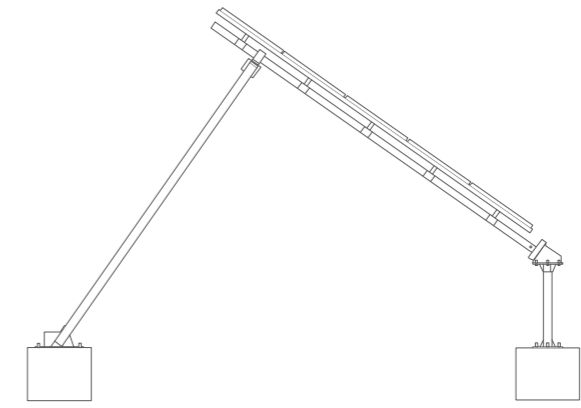
MRac Smart Tilt Single Axis Tracking Solar PV Mounting System is applied to large-scale solar PV power plant at latitude higher than 40-degree areas. One motor and control system make the whole solar module array track automatically. The unique linkage structure and slewing bearing ensure the stability of the whole system, low failure rate and maintenance cost. It is a good choice for large-scale solar power plant with roughly 20% power generation, comparing to fixed system.







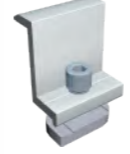



## Advantages

- > **Automatic Tracking without Manual Debugging**  
With good environmental adaptability, no affection by rainy and cloudy weather. Wide Range (+/-45 degree) of tracking angle improves the power generation 20% - 30% higher than fixed system.
- > **Equipped with GPS to Ensure the Accuracy of Time**  
High weather resistance contributes to safe and stable operation between -40°C-85°C. The excellent electromagnetic compatibility design makes the system stable and reliable.
- > **Remote Communication, Group Control for Multi-Equipment**  
Automatically identify the failure, with automatic self-protection and alarm. Quadruple over-current protection ensures the safety of the whole system.
- > **Customized System Configuration Available**  
It can be designed according to customer's specific requirement.

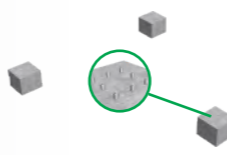






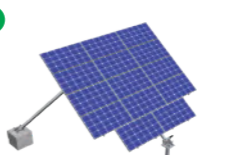
## Structure



## Component Details

<p><b>1</b></p>  <p><b>Post</b> Specification: C100*50*15*2*L4500 Material: Q235B(Hot-Dip Galvanized)</p>	<p><b>2</b></p>  <p><b>Square Steel</b> Material: Steel Q235B (Hot-Dip Galvanized)</p>
<p><b>3</b></p>  <p><b>Rail</b> Material: Q235B(Hot-Dip Galvanized)</p>	<p><b>4</b></p>  <p><b>Front Support</b> Material: Q235B (Hot-Dip Galvanized)</p>
<p><b>5</b></p>  <p><b>Diamond End Clamp Kit</b> Components: End Clamp, Cross Module, Spring WasherM8, Hexagon Socket Bolt</p>	<p><b>6</b></p>  <p><b>Diamond Inner Clamp Kit</b> Components: Inter Clamp, Cross Module, Spring WasherM8, Hexagon Socket Bolt</p>
<p><b>7</b></p>  <p><b>Control box</b> Specification: L300*160*400</p>	<p><b>8</b></p>  <p><b>Back Support</b> Specification: 7inch/9inch Single Side or Double Side Output</p>

## Installation Guide

<p><b>1</b></p>  <p>Make Concrete Base with Embedded Bolt Kit according to the solution.</p>	<p><b>2</b></p>  <p>Install Front Support.</p>	<p><b>3</b></p>  <p>Install Back Support.</p>	<p><b>4</b></p>  <p>Install Main Beam.</p>	<p><b>5</b></p>  <p>Install Rail.</p>
<p><b>6</b></p>  <p>Install Cross Beam.</p>	<p><b>7</b></p>  <p>Fasten solar panels by End Clamp Kit and Inner Clamp Kit.</p>	<p><b>8</b></p>  <p>Installation completed.</p>		