



Official Website

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# MIBET ENERGY

**Solar PV Mounting System Solutions** 

# **MIBET ENERGY**

Top 3 manufacturer of Solar Racking System, with solutions for commercial, industrial, residential and utility scale solar projects, including MRac roof racking, ground mount, floating system and solar tracker, compliant with certifications like ISO, CE, TUV, MCS, etc.



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# **Tile Roof Hook Solar PV Mounting System**



# **Technical Parameters**

System Name	MRac Tile Hook	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Pitched Roof		International Building Code IBC 2009,
Foundation	Tile, Flat Tile, Slate Tile, Asphalt Shingle Tile		California Building Code CBC 2010
Tilt Angle	5-45°	Hook Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304&Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10 Years

# Overview

MRac Tile Roof Hook Solar PV Mounting System is applied to tile roof residential and commercial solar projects. The system can achieve stable and strong connection between the roof support structure and solar modules with modular Patented design. Pre-assembled kits save the installation time and cost onsite.













# Advantages

- > Applicable for Different Tile Roofs
- Design project by project, selecting configuration of mounting system components flexibly.
- > Save Installation Time and Cost
  - Pre-assembled components and clear installation manuals are supplied to save the onsite installation time and cost, lead to better Rol.
- > Compatible to Different Types of Solar Modules Compatible to most kinds of framed 60-cell, 72-cell, half-cut cells modules and frameless modules.

# Components



# **Optional Hook Type**







Slate Tile Hook - 02



Slate Tile Hook - 04



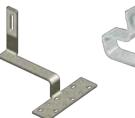
Tile Hook Kit



Tile Hook H120



Adjustable Tile Hook 1



Tile Hook 3



Alu Tile Hook E



Flat Tile Hook H107



Adjustable Tile Hook H132



Tile Hook H132



Tile Hook H145

# **Balcony Solar Mounting System**





# **Technical Parameters**

System Name	MRac Balcony Solar Mounting System	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Balcony		International Building Code IBC 2009,
Installation Base	Metal Railings, Wall, Concrete Roof		California Building Code CBC 2010
Mounting Angle	10°-30°	Material	Steel &AL6005-T5
Wind Load	≤30m/s	Fastener	SUS304
Snow Load	≤1.0KN/m²	Small Components	AL6005-T5
Applicable Solar Module	Framed	Color	Natural Silver or Customized
Panel Layout	Horizontal	Warranty	10-Year Warranty

# Overview

MRac Balcony Solar Mounting System is a Solar Mounting System product installed on balcony railings, which can easily realize the construction of photovoltaic power plants on the balcony. The system is all bolted and fixed, eliminating the need for welding and drilling during installation.

The unique telescopic tube support leg design allows the angle of the panel to be adjusted at any time.







# Advantages

### > Quick installation

Installation and removal are very simple and fast, 1-2 people can complete the installation.

#### > Adjustable angle

The tilt angle of the panels can be flexibly adjusted according to the installation site to obtain the best power generation efficiency, with a maximum tilt angle of 30°.

#### > No welding required

The system is all bolted and fixed, eliminating the need for welding and drilling during installation.

#### > Stable and reliable

Optimized structural design and material selection ensure the strength and stability of the system, suitable for a variety of different climatic environments.

# Structure



Installed on balcony with curved hook



2 Installed on wall with expansion bolts



3 Installed on concrete roof with expansion bolts

# **Component Details**



Curved Hook

Material: Zn-Al-Mg Coating Steel



U-shaped Hoop

Material : Zn-Al-Mg Coating Steel



Longitudinal Beam H50

Material: Zn-Al-Mg Coating Steel



30\*30 Square Tube

Material: Zn-Al-Mg Coating Steel



U-shaped Base Beam H50

Material: Zn-Al-Mg Coating Steel



Pro-U shaped Adjustment Tube

Material: Zn-Al-Mg Coating Steel



Install the tripod on the ground



Adjust the preset Angle



Lock the part of the Curved Hook





Find the 30\*30 square tube also placed under the base beam of the tripod



Repeat the above steps to complete



Install the pane

Roof Series 07

#### Roof Series 08

# MRac<sup>®</sup>

# L Feet and Hanger Bolt Kit Metal Roof PV Mounting System



# Overview

MRac L feet Kit and Hanger Bolt Kit is applied in most Corrugated Metal Roof commercial and industrial solar projects. The system can achieve stable and strong connection between the roof support structure and solar modules with modular Patented design. Pre-assembled kits save the installation time and cost on site.

#### **Technical Parameters**

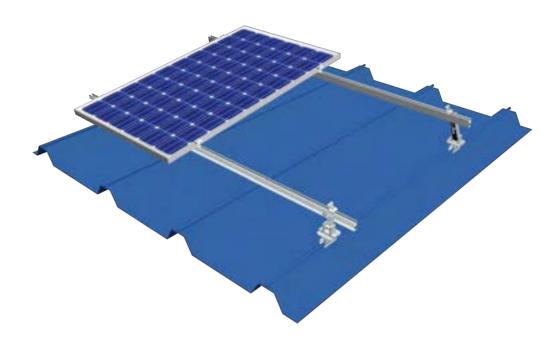
System Name	MRac L Feet Kit & Hanger Bolt Kit	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Pitched Roof		International Building Code IBC 2009,
Foundation	Trapezoidal Roof		California Building Code CBC 2010
Tilt Angle	0°	Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

# **Component Details**



# **MRac**<sup>®</sup>

# **Adjustable Support Kit Solar PV Mounting System**



#### Overview

MRac Adjustable Support Kit Solar PV Mounting System is applied in most Corrugated Metal Roof and Flat Roof commercial and industrial solar projects. The system can achieve stable and strong connection between the roof support structure and solar modules with modular Patented design. Adjustable angles can reduce the stock SKU and flexible for onsite installation. Pre-assembled kits save the installation time and cost

#### **Technical Parameters**

System Name	Adjustable Support	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Pitched Roof		International Building Code IBC 2009,
Foundation	Metal Roof		California Building Code CBC 2010
Tilt Angle	10-60°	Rail	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Landscape or Portrait	Warranty	10-Year Warranty

# **Component Details**





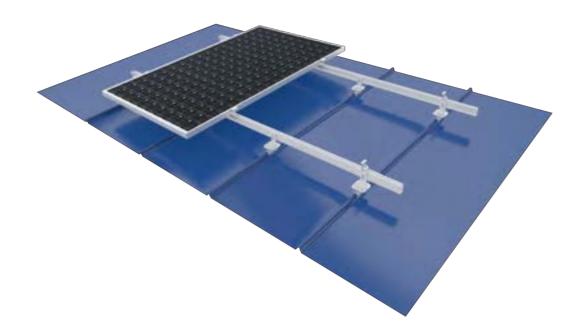






Front Support Adjustable Back End Clamp Kit Inter Clamp Kit

# MRac<sup>®</sup> Kliplok



# **Technical Parameters**

System name	MRac Kliplok	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Pitched Roof		International Building Code IBC 2009,
Foundation	Trapezoidal Metal Roof Support		California Building Code CBC 2010
Tilt Angle	0-15°	Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304&Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Module	Framed or Frameless	Color	Silver or Customized
Panel Orientation	Portrait or Landscape	Warranty	10 Years

# **Overview**

MRac Kliplok is mainly applied to metal roofs, and its material is Al6005-T5. With its professional design, it can realize the perfect connection between roof support and roof to meet customer installation requirement. Professional solution and structure design can save your installation time and cost. Moreover, patented and unique design can bring you a good installation experience.













# Advantages

> Applicable for different metal roofs

According to customer requirement, choose different roof mounting system flexibly;

> Save installation time and cost

Save the installation time and cost by offering installation manual and solution;

> Compatible with different types of solar modules Free and flexible to choose different types of solar modules.

# Components















L Feet Kit

Multi-functional Kliplok 406/700

End Clamp Kit(MA) Inter Clamp Kit(MA)

MA Rail

MA Rail H60

# **Applicable Kliplok Roof Support**







Kliplok 406&700 Compatible



Multi-functional Kliplok 406



Medium Kliplok 23



Kliplok 25B



Kliplok 700



Kliplock longline 305



Kliplok Interface Kit



Universal Kliplok Roof Clamp



Multi-functional Kliplok V

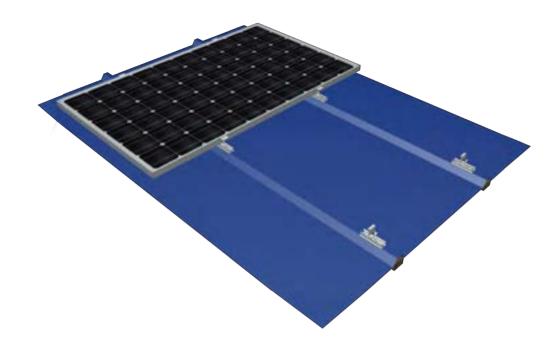


Multi-functional Kliplok VI



Multi-functional Kliplok 406/700

# **Mini-Rail Kit Metal Roof PV Mounting System**



# **Technical Parameters**

System Name	Mini-Rail Kit	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Pitched Roof		International Building Code IBC 2009,
Roof Type	Trapezoidal Roof		California Building Code CBC 2010
Tilt Angle	0°	Material	Q235B(Hot-Dip Galvanized) & AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304&Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscap	Warranty	10-Year Warranty

# Overview

MRac Mini-Rail Kit is mainly applied to Trapezoidal Metal Roof commercial and industrial solar projects. The system can achieve stable and strong connection between the roof support structure and solar modules with modular Patented design. Pre-assembled kits save the installation time and cost onsite.











# Advantages

# > Applicable for Different Metal Roofs

Design project by project, selecting configuration of mounting system components flexibly.

#### > Save Installation Time and Cost

Pre-assembled components and clear installation manuals are supplied to save the onsite installation time and cost, lead to better Rol.

# > Compatible to Different Types of Solar Modules

Compatible to most kinds of framed 60-cell, 72-cell, half-cut cells modules and frameless modules.

# Components











Mini-Rail Kit

End Clamp Kit Inter Clamp Kit End Clamp Kit(MA)

Inter Clamp Kit(MA)











# **Optional**









Mini-Rail Kit

MA Mini Rail AH18.5

MA Mini Rail BH18.5

MA Mini Rail CH18.5









MA Mini Rail H25

MA Mini Rail AH30

MA Mini Rail BH30

MA Mini Rail CH30









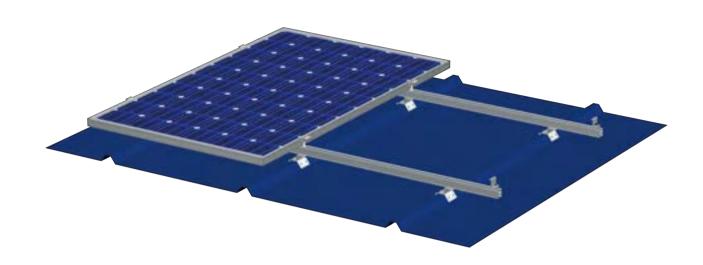
T Rail H18.5

MA Mini Rail H45

T Rail H30

T Rail H50

# **Trapezoidal Metal**



#### **Technical Parameters**

System Name	MRac Trapezoidal Metal	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Pitched Roof		International Building Code IBC 2009,
Foundation	Trapezoidal Metal Roof Support		California Building Code CBC 2010;
Tilt Angle	0-15°	Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304&Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

# Overview

# MRac Trapezoidal Metal Roof Clamp Solar PV Mounting System is

mainly applied to metal roof, and its main material is aluminium alloy. With its professional design, it can realize the perfect connection between kliploks and roof to meet customer installation requirement. Professional solution and structure design can save your installation time and cost. Moreover, Patented and unique design can bring you a good and fast installation experience.











# Advantages

#### > Applicable for different metal roofs

According to different metal roof types, making professionally design and achieve perfectly connection between the kliploks and roof tiles.

#### > Save installation time and cost

Patented structure design and system solutions will reduce on-site installation time and cost.

#### > Compatible to different types of solar modules

By its independent researched clamps, it is compatible to various solar modules in the market.

#### > Excellent structure design

Professional structure design will meet components installation requirements of tiled or with angle, as well as the installation in landscape and portrait orientation.

# **Components**



Adjustable Trapezoidal Roof Support





End Clamp Kit U20 Inter Clamp Kit Light Symmetrical Rail



Tile's Structure

Roof Series 14

# **Applicable Standing Seam Support**



Trimdeck Roof Hook-07-A



Trimdeck Roof Hook



Trimdeck Roof Hook-07-B



Trimdeck Roof Clamp



Trapezoidal Roof Support E





Trapezoidal Roof Support F Trapezoidal Roof Support G



Trapezoidal Roof Support I



Trapezoidal Roof Support J



Trapezoidal Roof Support K



Trapezoidal Roof Support L



Trapezoidal Roof Support N



Trapezoidal Roof Support M





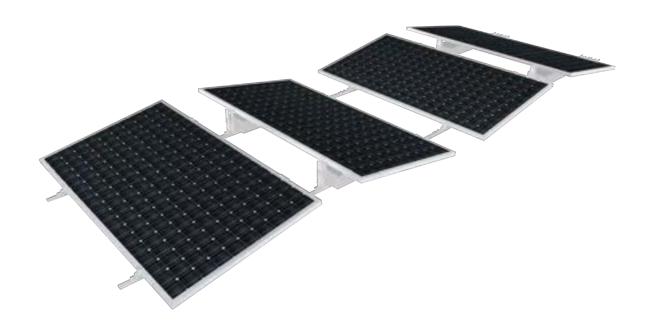
Trapezoidal Roof Support P Adjustable Trapezoidal Roof Support Trapezoidal Roof Support A



#### Roof Series 16

# MRac<sup>®</sup>

# **East/West Matrix Solar Roof Mounting System**



# **Technical Parameters**

System Name	MRac E/W Matrix Solar Roof Mounting System	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Flat Concrete roof, Flat ground, Membrane roof		International Building Code IBC 2009,
Roof Type	Concrete Ballast		California Building Code CBC 2010
Tilt Angle	10°	Material	AL6005-T5(Anodized)
Wind Load	≤44m/s	Fastener	SUS304, Hot Dip Galvanized, Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed/Frameless, Any width panel	Color	Silver or Customized
Panel Layout	Landscape	Warranty	10-Year Warranty

# **Overview**

MRac E/W Matrix Solar Roof Mounting System is a non-penetration solution for flat rooftop, to meet different tilt angles installation. It is applicable to the roof areas with medium wind load. Quick installation and stable structure are assured by the modular patented design.









# Advantages

### > High Durability Ensure the Structure Strength

Professional structure design and high-density aluminum material ensure the stability and strength of the structure.

#### > Unique Matrix Design

The matrix design further assures the stability of the whole system, and flexibly compatible with concrete block or ballast foundation.

#### > Reasonable Installation and Package Design

Simplified components configuration lead to quicker installation and smaller package size, saving installation cost and freight.

# Structure



# **Component Details**





**GM Rail** 

eterial : AL6005-T5(Anodized)



Rear Support Plate(Upper) (10°)

Specification: L50 Material: AL6005-T5(Anodized)



C Clamp Kit

Components : C Clamp Cross Module Spring Washer M8 Hex Socket Head Bolt



Front Support Plate (Nut)

Specification: L50

Material : AL6005-T5(Anodized)

Specific Materia

Rear Support Plate(Down) (10°)

Specification: L50 Material: AL6005-T5(Anodized)

End Clamp Kit



Components: End Clamp Spring Washer M8 Hexagon Socket Bolt

# **Installation Guide**



2





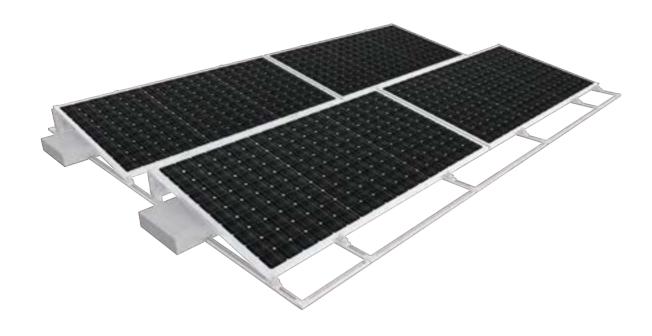


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# **Roof Solar PV Mounting System RM-Ad**



# **Technical Parameters**

System Name	MRac Roof Solar PV Mounting System RM-Ad	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Flat Concrete roof, Flat ground, Membrane roof		International Building Code IBC 2009,
Roof Type	Concrete Ballast		California Building Code CBC 2010
Tilt Angle	0-30°	Material	Q235B(Hot-Dip Galvanized) AL6005-T5(Anodized)
Wind Load	≤44m/s	Fastener	SUS304, Hot Dip Galvanized, Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed/Frameless, Any width panel	Color	Silver or Customized
Panel Layout	Landscape	Warranty	10-Year Warranty

# **Overview**

MRac Roof Solar PV Mounting System RM-Ad is a non-penetration solution for flat rooftop, to meet different tilt angles installation. It is applicable to the roof areas with medium wind load. Quick installation and stable structure are assured by the modular patented design.









# Advantages

# > High Durability Ensure the Structure Strength

Professional structure design and high-density aluminum material ensure the stability and strength of the structure.

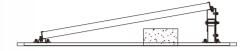
#### > Unique Matrix Design

The matrix design further assures the stability of the whole system, and flexibly compatible with concrete block or ballast

#### > Reasonable Installation and Package Design

Simplified components configuration lead to quicker installation and smaller package size, saving installation cost and freight.

# Structure





# **Component Details**



# **GM** Rail

Specification: L1350,L2700 Material : AL6005-T5(Anodized)



#### Rear Support Plate(Upper) (10°)

Specification: L50 AL6005-T5(Anodized)

GM Rail's Two Way Connector

Corrugated Gasket Anchor Kit M8\*75

Material: AL6005-T5(Anodized)



# Front Support Plate (Nut)

Specification: L50 Material: AL6005-T5(Anodized)



#### Rear Support Plate(Down) (10°)

Specification: L50

Material: AL6005-T5(Anodized)



#### GM Rail's Three Way Conncetor

Specification: L90 Material: PP





#### **End Clamp Kit**

Components : End Clamp

Spring Washer M8 Hexagon Socket Bolt



# C Clamp Kit

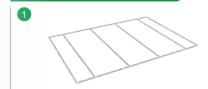
Specification: L65

Material: PP

Specification: L60

Components : C Clamp Cross Module Spring Washer M8 Hex Socket Head Bolt

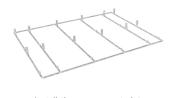




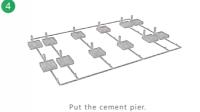
Connect the GM rail with connector.



Install the front support plate.



Install the rear support plate.



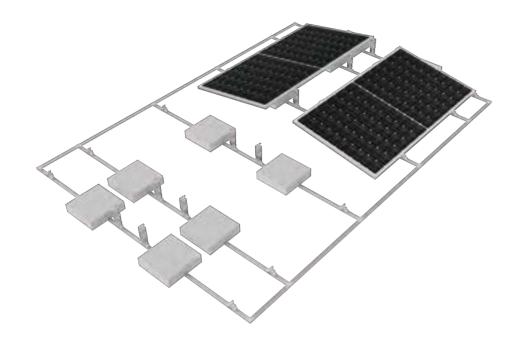




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# **MRac**

# **Roof Solar PV Mounting System RM-Ad Symmetric Ballast**



# **Technical Parameters**

System Name	MRac Roof Solar PV Mounting System RM-Ad	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Flat Concrete roof, Flat ground, Membrane roof		International Building Code IBC 2009,
Roof Type	Concrete Ballast		California Building Code CBC 2010
Tilt Angle	0-30°	Material	Q235B(Hot-Dip Galvanized) AL6005-T5(Anodized)
Wind Load	≤44m/s	Fastener	SUS304, Hot Dip Galvanized, Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed/Frameless, Any width panel	Color	Silver or Customized
Panel Layout	Landscape	Warranty	10-Year Warranty

# **Overview**

MRac Roof Solar PV Mounting System RM-Ad is a non-penetration solution for flat rooftop, to meet different tilt angles installation. It is applicable to the roof areas with medium wind load. Quick installation and stable structure are assured by the modular patented design.









# Advantages

### > High Durability Ensure the Structure Strength

Professional structure design and high-density aluminum material ensure the stability and strength of the structure.

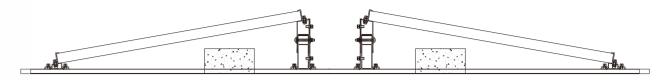
#### > Unique Matrix Design

The matrix design further assures the stability of the whole system, and flexibly compatible with concrete block or ballast foundation.

#### > Reasonable Installation and Package Design

Simplified components configuration lead to quicker installation and smaller package size, saving installation cost and freight.

# Structure



# **Component Details**



**GM** Rail

Specification: L1350,L2700 Material: AL6005-T5(Anodized)



Rear Support Plate(Upper) (10°)

Specification: L50 Material: AL6005-T5(Anodized)



GM Rail's Two Way Connector

Specification: L65



Corrugated Gasket Anchor Kit M8\*75

Specification: L60

Material: AL6005-T5(Anodized)



C Clamp Kit

Components : C Clamp Cross Module Spring Washer M8 Hex Socket Head Bolt



Front Support Plate (Nut)

Specification: L50 Material: AL6005-T5(Anodized)



Rear Support Plate(Down) (10°)

GM Rail's Three Way Conncetor

Specification: L90

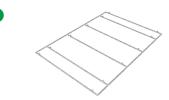
**End Clamp Kit** 

Components: End Clamp Spring Washer M8 Hexagon Socket Bolt

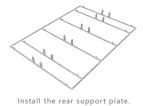
# **Installation Guide**

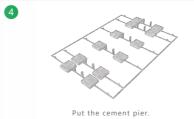


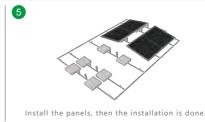
Connect the GM rail with connector.



Install the front support plate.

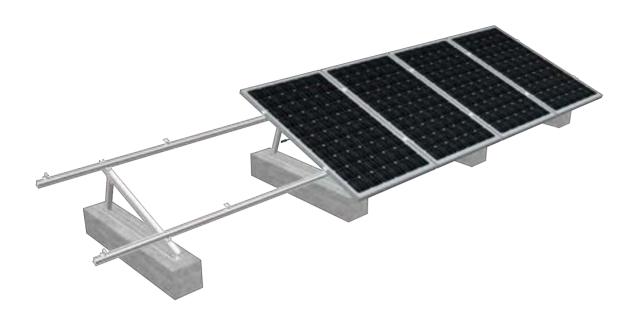






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# **Roof Solar PV Mounting System Matrix II**



# **Technical Parameters**

System Name	MRac RMII	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Flat Roof, Pitched Roof		International Building Code IBC 2009,
Roof Type	Concrete Roof, Metal Roof		California Building Code CBC 2010
Tilt Angle	0-60°	Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 &Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

# Overview

MRac Roof Solar PV Mounting System Matrix II is derived from RM I to meet different roof projects demands. Solar modules can be arranged with single or double rows of landscape or portrait orientation. Quick installation and stable structure are assured by the modular Patented design.









# Advantages

> System Compatibility

Components mostly pre-assembled in factory to assure quick and reliable installation on site. Suitable for different flat rooftop, and compatible to different types of solar modules.

> Unique Mudsill Design

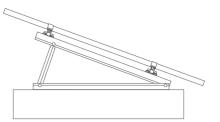
The mudsill can be fixed to flat roof or pitched roof with concrete foundation or steel foundation.

> Solar Module Layout Flexibility

Both landscape and portrait solar module layout are suitable. Both single row and double rows layout can be achieved separately or combined.

> Adjustability
Tilt angle can be adjustable

#### Structure



# **Component Details**



Pro Rail 50

Specification: 3100、4100、5100mm Material: AL6005-T5(Anodized)



### Splice for Pro Rail 50

Specification: Standard length 260mm Flange Head Self-taping

Screw ST6.3\*19

Material : AL6005-T5(Anodized)



#### **End Clamp Kit**

Components: End Clamp Cross Module Spring Washer M8 Hex Socket Head Bolt



# C Clamp Kit

Components: C Clamp Cross Module Spring Washer M8 Hex Socket Head Bolt



#### Single Tripod Support

Components: Tripod Support Beam Tripod Support Mudsill Tripod Support SquareTubeA

HJointer Flat Washer M10 Spring Washer M10 Hexagon Bolt M10\*65



#### Adjustable Tripod

Components: Tripod Support Beam Tripod Support Mudsill Tripod Support Square Tube A H Jointer Flat Washer M10 Spring Washer M10

Hexagon Bolt M10\*65



#### Inter Clamp Kit

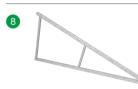
Components : Inter Clamp Cross Module Spring Washer M8 Hex Socket Head Bolt



### Angle Aluminum Tripod Support

Components : Angle Aluminum Beam Angle Aluminum Mudsill Angle Aluminum Side Beam flat washerM8

spring washerM8 Hexagon Bolt M8\*2.5



# **Double Tripod Support**

Components: Tripod Support Beam Tripod Support Mudsill Tripod Support Square Tube A/B

H Jointer Flat Washer M10 Spring Washer M10 Hexagon Bolt M10\*65

#### **Installation Guide**



Place the concrete base at the osition indicated on the solution drawings



Fasten the preassembled supports on the expansion bolts by C Clamps

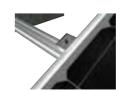


Install splices

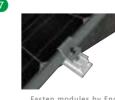


Fasten the rails by C Clamp Kits





sten modules by Inner Clamp Kits

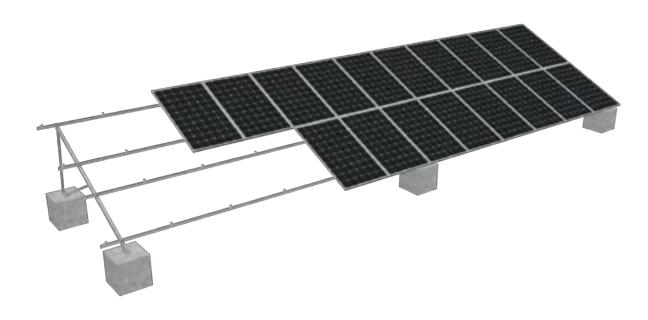


Fasten modules by End Clamp Kits



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# **Double-row Tripod Base-beam-free RMIV**



# **Technical Parameters**

System Name	MRac Double-row Tripod Base-beam-free RMIV	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Flat roof, ground		International Building Code IBC 2009,
Roof Type	Concrete foundation, steel foundation		California Building Code CBC 2010
Tilt Angle	0-60°	Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 &Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

# Overview

MRac Double-row Tripod Base-beam-free RMIV is derived from RM II to meet different roof projects demands. Solar modules can be arranged with single or double rows of landscape or portrait orientation. Quick installation and stable structure are assured by the modular Patented design.









# Advantages

#### > System Compatibility

Components mostly pre-assembled in factory to assure quick and reliable installation on site. Suitable for different flat rooftop, and compatible to different types of solar modules.

#### > Unique Mudsill Design

The mudsill can be fixed to flat roof or pitched roof with concrete foundation or steel foundation.

#### > Solar Module Layout Flexibility

Both landscape and portrait solar module layout are suitable. Both single row and double rows layout can be achieved separately or combined.

#### > Adjustability

Tilt angle can be adjustable

#### Structure



# **Component Details**







Specification: 3100、4100、5100mm Material: AL6005-T5(Anodized)



Splice kit for MA Rail

Specification: L200

Material: AL6005-T5(Anodized)

Roof Series 24



#### End clamp kit(MA)

Components: End Clamp Cross Module Spring Washer M8 Hex Socket Head Bolt



#### Inter Clamp Kit(MA)

Components: Inter Clamp Cross Module Spring Washer M8 Hex Socket Head Bolt



RMIV Back Base

Material : Steel Q235B (Hot-Dip Galvanized)



#### **RMIV Front Base**

Rail Clamp(MA)

Material : Steel Q235B (Hot-Dip Galvanized)

Material: AL6005-T5(Anodized)



#### Pre-assembled Structure

Material: AL6005-T5(Anodized)

#### **Installation Guide**



Place the concrete base and install the anchor base



Install pre-assembled structure



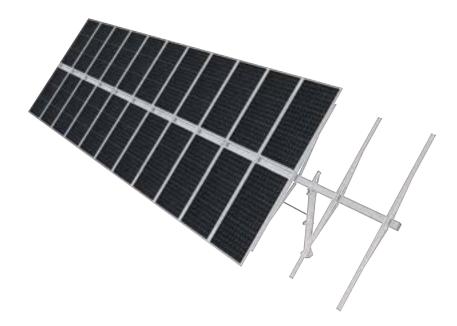
Install the rail





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# **Manually Adjustable Ground Mounting**



# **Technical Parameters**

Installation Site	Ground	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Foundation	Concrete Base	International Building Code IBC 2009,	
Tilt Angle	10-40°	California Building Code CBC 2010	
Wind Load	≤40m/s	Material	Q235B(HDG)&Q355(HDG)
Snow Load	≤0.8KN/m²	Fastener	SUS304&Nickle-Zinc Alloy&Q355(HDG)
Ground Clearance	≤1000+mm	Small Components	Q235B(HDG)
Applicable Solar Module	Framed	Color	Silver or Customized
Panel Layout	Portrait	Warranty	10-Year Warranty

# Overview

MRac Manually Adjustable Ground Terrace is suitable for the installation of large-scale commercial and utility solar power stations. The product has a firm structure with strong stability. The main parts are made of carbon steel, which has good corrosion resistance. The product is flexible in design, and the angle of the panel can be adjusted manually, making the power generation more efficient and profitable. The optimized design of the structure effectively improves the installation time and greatly reduces the installation cost.











# Advantages

> Strong adaptability to the environment, high power generation

Suitable for different ground environments.

> Professional structural design

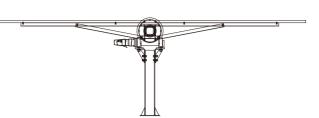
It can ensure the overall stability and strength of the system. It was pre-assembled in the factory prior to delivery and the installation only needs to be fixed and spliced with fasteners on site.

> Adjustable angle design

The entire system can manually adjust the required angle, making power generation more efficient and more profitable.

> Fully compatible with different PV modules It is compatible with various types of PV modules freely and flexibly.

#### **Structure**



# **Component Details**



## Square Steel

Material: Steel Q235B (Hot-Dip Galvanized)



#### Angle Bar

Material: Steel Q235B (Hot-Dip Galvanized)



#### **Control Box**

Material: Steel Q235B (Hot-Dip Galvanized)



#### Post

Material: Steel Q235B (Hot-Dip Galvanized)



#### Holder for Post of Push Rod

Material: Steel Q235B (Hot-Dip Galvanized)



#### Bearing's Plate

Material: Steel Q235B (Hot-Dip Galvanized)



#### Bearing base

Material: Steel Q235B (Hot-Dip Galvanized)



#### U-shape Bolt

Material: Steel Q235B (Hot-Dip Galvanized)



#### Electric Push Rod

Material: Steel O235B (Hot-Dip Galvanized)



#### Hoop Kit

Material: Steel O235B (Hot-Dip Galvanized)

#### **Installation Guide**



Install Posts according to the engineering drawing



Install motor and bearing sleeve

Install portrait beams





Install damper



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# **Solar Carport System II**



# **Technical Parameters**

Installation Site	Open Area	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Foundation	Concrete foundation		International Building Code IBC 2009,
Tilt Angle	5-15°		California Building Code CBC 2010
Wind Load	≤45m/s	Material	AL6005-T5(Anodized)
Snow Load	≤1.2KN/m²	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Ground Clearance	≤2000mm+	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

# Overview

MRac Solar Carport System II is a pre-assembled ground solar mounting system which is ideal for large commercial and utility-scale solar PV projects. The system has been developed for various photovoltaic modules and will be customized to fit into the parking lot or designed according to specific requirements. The Carport System can protect the cars to avoid damage from sunshine, wind, rain water, and snow. Mibet's engineers continue to optimize the design of system, the quality of product and service, and also provide the best solution for your Solar Carport System.













Design case by case, making a good utilization of ground resource and pursuit for easy and quick installation.

> High Waterproof

The special waterproof conforms to the structure of system, which make the performance Stronger

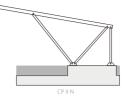
> Save Installation Time and Labor Cost on Site

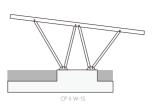
With installation manuals and system solution, the construction on site will be simple. Less construction time directly reduces project costs.

> Compatible to Varied Solar Modules

With Mrac module clamps, the system compatible with most kinds of framed and frame and frameless modules.

#### **Structure**







# **Component Details**



#### Conical Symmetric Cross Beam 135

Specification: L\*58\*135 Standard LengtB300mm 5000mm



#### Beam 160

Specification: L\*100\*100 Material: AL6005-T5 (Anodized)



#### Wide End Clamp Kit

Components: Wide End Clamp Symmetric Cross Module Spring Washer M8 Hexagon Socket Bolt



#### Anchor Plate for Carport (L250)

Specification: 62\*49\*L250 AL6005-T5 (Anodized)



# Anchor Plate for Carport (L450)

Specification: 62\*49\*L450 Material: AL6005-T5 (Anodized )



#### Splice for Conical Symmetric Cross Beam 135

Specification: L260mm

Components : Hexa Self-Tapping Screw

With EPDM Washer ST6.3\*19

Ground Series 28



#### C Clamp Kit

Symmetric Cross Module Spring Washer M8 Hexagon Socket Bolt



#### U25 Inter Clamp Kit

Components: U25 Inter Clamp Symmetric Cross Module Spring Washer M8

Hexagon Socket Bolt



#### Square Tube

Specification: L\*100\*100 Material: AL6005-T5 (Anodized )



### Waterproof for Cross Beam

Specification: L\*100\*100



Grout the bolt embedded on the concrete foundation based on project solution.



Fix Corrugated T Anchor Plate Kit on the concrete foundation.



Connect the Pre-assemble Support with the Anchor Plate Kit on the concrete foundation.





The installation of beam is done





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# **Mono Carport System**



# **Technical Parameters**

Installation site	Open Area	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Foundation	Concrete Foundation		International Building Code IBC 2009,
Tilt Angle	5-15°		California Building Code CBC 2010
Wind Load	≤50m/s	Material	Zn-Al-Mg Coating Steel & HDG Steel
Snow Load	≤1.6KN/m²	Fastener	Zn-Ni Alloy & SUS304 & HDG Steel
Ground Clearance	≤1800mm~3000mm	Small Components	AL6005-T5 (Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-year

# Overview

MRac Pro Mono Carport System is mainly customized according to customer site requirements, which is convenient parking, beautiful appearance. PV carport not only has the function of ordinary carport, but also can generate electricity and income through solar power generation. Professional solutions bring you a simple and convenient installation experience, Mibet engineers have been committed to optimize the system design, products and service quality, and provide you with the best quality solutions of photovoltaic shed.











Design case by case, making a good utilization of ground resource and pursuit for easy and quick installation.

minimizes obstruction, and facilitates parking and access.

#### > Convenient parking and beautiful appearance The single column design makes the structure simpler,

# > Save Installation Time and Labor Cost

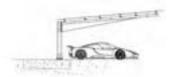
Pre-assembled Components Save Onsite Installation Time Solution design case by case, most components pre-assembled in factory, no onsite cut and drill request, saving the onsite installation time and cost.

#### > Compatible to Varied Solar Modules

With MRac module clamps, the system compatible with most kinds of framed 60-cell, 72-cell.

#### **Structure**







# **Component Details**



76 steel tube Material: HDG Steel



Mono post with welding plate Material: Zn-Al-Mg Coating Steel

Ground Series 30



Splick for Rail Material: Zn-Al-Mg Coating Steel



**Rail Connector** 

Material: Zn-Al-Mg Coating Steel



H-shape Steel





H-shape Steel with Welding Plate Material: HDG Steel



Pull Rod kit-A

Material: Zn-Al-Mg Coating Steel



Pull Rod kit-B

Material: Zn-Al-Mg Coating Steel



Inter Clamp kit

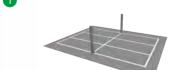
Material: AL6005-T5 (Anodized) SUS304



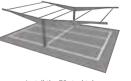
**End Clamp kit** 

Material: AL6005-T5 (Anodized) SUS304

# **Installation Guide**







Install the H-shape Steel. Install the 76 steel tube.



Fix the H-shape Steel Welding Plate.



The installation is done.

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Install the module.

# **Ground Mounting GT2**



# **Technical Parameters**

Installation Site	Ground	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Foundation	U Post		International Building Code IBC 2009,
Tilt Angle	0-60°		California Building Code CBC 2010
Wind Load	≤60m/s	Material	Steel Q235B(Hot-Dip Galvanized),AL6005-T5(Anodized)
Snow Load	≤1.6KN/m²	Fastener	SUS304 &Zinc-Nickel Alloy Electroplated Steel
Ground Clearance	≤500-2000mm	Small Components	AL6005-T5 (Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

# Overview

MRac Ground Terrace GT2 is a highly pre-assembled ground mounting system, which can be applied to the installation of large commercial and utility scale solar PV projects. Made of high quality aluminum material, GT2 has excellent corrosion resistance performance. The single-pile patented structure design saves installation time and cost, with good compatibility to varied solar modules.











# Advantages

#### > Pre-assembled Components Save Onsite Installation Time

Solution design case by case, most components pre-assembled in factory, no onsite cut and drill request, saving the onsite installation time and cost.

# > Single-Pile Design

Single-pile design reduce half of the ramming time, saving the construction cost.

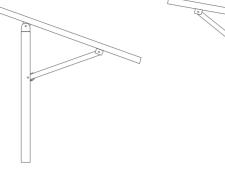
#### > Structure Configuration Multi-Options

Single or double embrace bars structure configuration available to meet varied projects requests.

#### > Flexibility and Adjustability

The structure can be adjusted with some tolerance with east-west, west-south and south-north directions, assuring flexible on-site installation to achieve best yield for solar modules.

#### Structure





# **Component Details**



#### Rail 85

Specification: L\*63.5\*85 Standard Length: 3100mm 4100mm 5100mm

Single Arm Side Support





Components: U Beam; T Shape Jointer; C clamp Kit Pre-Assembled Square Tube Spring WasherM12; Washer M12 Hexagon Nut M12; Hexagon Bolt M12\*95 Hexagon Bolt M12\*75



#### **End Clamp Kit**

Components : End Clamp Cross Module Spring Washer M8 Hexagon Socket Bolt



#### Post Plate

Material: AL6005-T5 (Anodized) Specification: Plate A: L90 Plate B: L70



### Splice for Rail 85

Specification: 1260mm

Components : Hexa Self-Tapping Screw With EPDM Washer

ST6.3\*19

Hexagon Socket Bolt

Ground Series 32

#### C Clamp Kit

Components: C Clamp Cross Module Spring Washer M8



# Inter Clamp Kit

Components : Inter Clamp Cross Module Spring Washer M8 Hexagon Socket Bolt



#### U Post

Material: Steel Q235B (Hot-Dip Galvanized)



Install the U post with driven pile based on project solution



Install Post Plate onto U post



Install the Pre-assemble Support on the Post Plate & U post





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# **Ground Mounting GT4**



# **Technical Parameters**

Installation Site	Ground	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Foundation	Concrete Base or Ground Screw		International Building Code IBC 2009,
Tilt Angle	0-60°		California Building Code CBC 2010
Wind Load	≤60m/s	Material	AL6005-T5(Anodized)
Snow Load	≤1.6KN/m²	Fastener	SUS304 &Zinc-Nickel Alloy Electroplated Steel
Ground Clearance	≤500-2000mm	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

# Overview

MRac Ground Terrace GT4 is a highly pre-assembled ground mounting system, with strong wind load and snow load resistance. The system can achieve minor adjustment onsite with special design of Anchor Plate to adapt to different sites, and is mainly applied to medium to large scale solar PV projects. Patented and certified system design ensure projects safety and quick installation.











#### Advantages

# > Pre-assembled Components Save Onsite Installation Time

Solution design case by case, most components pre-assembled in factory, no onsite cut and drill request, saving the onsite installation time and cost.

#### > Flexibility and Adjustability

The structure can be adjusted with some tolerance with east-west, west-south and south-north directions, assuring flexible on-site installation to achieve best yield for solar modules.

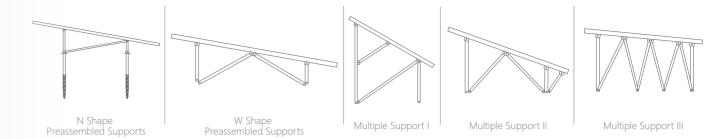
### > Ouick Modular Kit Fixation

Most of the components are designed as modular kit with anodized aluminum to further ensure easy and fast construction on site.

#### > No Drill on Portrait Beam

It improves the strength of the system to fix the portrait beam onto the post by special designed clamps, with force at the same direction of the gravity.

#### Structure



# **Component Details**



#### Cross Beam 85

Specification : L\*71\*85 Standard Length: 3100mm 4100mm 5100mm



# **GT4** Preassembled Support



#### Wide End Clamp Kit

Components: Wide End Clamp Cross Module Spring Washer M8 Hexagon Socket Head Bolt



#### GT4 Corrugated T Anchor Plate Kit

Components : Corrugated Gasket Corrugated T Plate Hexagon Bolt Kit AL6005-T5 (Anodized)



#### Splice for Cross Beam85

Specification: L260mm Components : Hexa Self-Tapping Screw With EPDM Washer ST6.3\*19

Ground Series 34



#### C Clamp Kit

Spring Washer M8 Hexagon Socket Head Bolt M8\*28



#### U25 Inter Clamp Kit

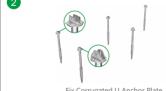
Components : Inner Clamp Cross Module Spring Washer M8 Hexagon Socket Head Bolt



#### GT4 Corrugated U Anchor Plate Kit

Components: Corrugated Washer Corrugated U Anchor Plate M12\*95 External Hexagon Bolt Kit AL6005-T5 (Anodized)





Fix Corrugated U Anchor Plate Kit & Corrugated T Anchor Plate Kit on ground screw.

Install the Pre-assemble







# **Ground Mounting GT7**



# **Technical Parameters**

Installation Site	Ground	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Foundation	C-shape, I-shape, Л-shape Piles		International Building Code IBC 2009,
Tilt Angle	0-60°		California Building Code CBC 2010
Wind Load	≤60m/s	Material	Q235B(Hot-Dip Galvanized)
Snow Load	≤1.6KN/m²	Fastener	SUS304 & Hot Dip Galvanized
Ground Clearance	≤500-2000mm	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

# Overview

MRac Ground Solar PV Mounting System GT7 is applied for the installation of large-scale and utility-scale solar PV power plant. Main components are made of hot-dip galvanized steel, with good performance of structure strength, stability, and anti-corrosion. Compatible with varied solar modules. Unique piles and structure design save installation time and cost.











# Advantages

Unique post design suitable for varied soil conditions and strengthen the whole structure stability.

### > Pre-assembled Components Save Onsite Installation Time

Solution design case by case, most components pre-assembled in factory, no onsite cut and drill request, saving the onsite installation time and cost.

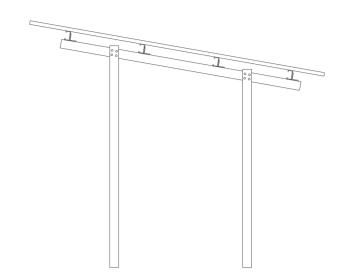
## > Flexibility and Adjustability

The structure can be adjusted with some tolerance with east-west, west-south and south-north directions, assuring flexible on-site installation to achieve best yield for solar modules.

# > Compatible to Varied Solar Modules

With MRac module clamps, the system compatible with most kinds of framed 60-cell, 72-cell, half-cut cells modules and frameless modules.

#### Structure



# **Component Details**



Rail

Material: Steel Q235B (Hot-Dip Galvanized)



C-shape Pile

Steel Q235B (Hot-Dip Galvanized)



Inter Clamp Kit

Components: Inter Clamp Spring Washer M8 Hexagon Socket Bolt



**Beam Connector** 

Steel Q235B (Hot-Dip Galvanized)

Steel Q235B (Hot-Dip Galvanized)

**End Clamp Kit** 

Components : End Clamp Spring Washer M8 Hexagon Socket Bolt

# **Installation Guide**



Install the C-shape Pile based on project solution.



Install Inclined Support.

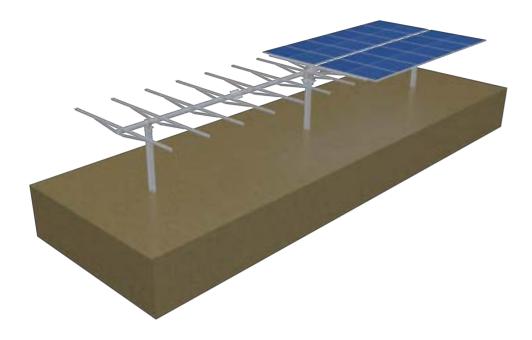




Fix the solar module with Inter Clamp Kit & End Clamp Kit.



# Smart Horizontal Single Axis Tracking Solar PV Mounting System



# **Technical Parameters**

GPS Module	Acquire longitude, latitude and accurate time automatically,	Design Support	Support Wind Protection, Snow Removal Mode;
	and be Compatible with Beidou Satellite Positioning System		Rain Cleaning Mode;
Install Capacity	<25KWP		Position Return Mode;
Tracking Angle	±60°	Driving Methods	Slewing Speed Reducer
Wind Resistance	<22m/s	Material	Q235B(HDG)&Al 6005-T5
Tracking Algorithm	Astronomical Algorithms +Tilt Sensors	Control System	Microcomputer
Ground Clearance	400mm+	IP	Grade
Power Supply	DC24V	Warranty	10-Years Warranty

# Overview

MRac Smart Horizontal Single Axis Tracking Solar PV Mounting System is mainly applied to large-scale solar power plant at low latitude 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 of tracking angle improves the power generation .

### > Equipped with GPS to Ensure the Accuracy of Time

High weather resistance contributes to safe and stable operation between -40°C-85°CThe excellent electromagnetic compatibility design makes the system stable and reliable.

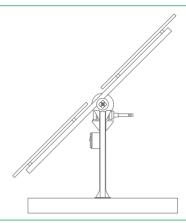
#### > Remote Communication, Group Control for Multi-Equipment

Automatically identify the failure, with automatic self-protection and alarm; Quadruple over-current protection ensures the safety of the

#### > Customized System Configuration Available

It can be designed according to customer's specific requirement.

# **Structure**



# **Component Details**



#### Post

Specification: C100\*50\*15\*2\*L4500 Steel Q235B Material : (Hot-Dip Galvanized)



#### **Motor Base**

Steel O235B (Hot-Dip Galvanized)



**Bearing Base** 

Steel Q235B (Hot-Dip Galvanized)



# **Bearing Sleeve**

AL6005-T5 (Anodized )



#### Diamond End Clamp Kit

Components: End Clamp Diamond Bolt M8 Spring Washer M8 Hexagon Bolt Kit



#### Control box

Specification: L300\*160\*400



#### Diamond Inter Clamp Kit

Components: Inter Clamp Diamond Bolt M8 Spring washer M8 Hexagon bolt Kit



Motor

Specification: 7inch/9inch Single Side or Double Side Output



Install the Post on the foundation



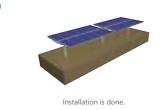
Install Motor and Bearing Sleeve.





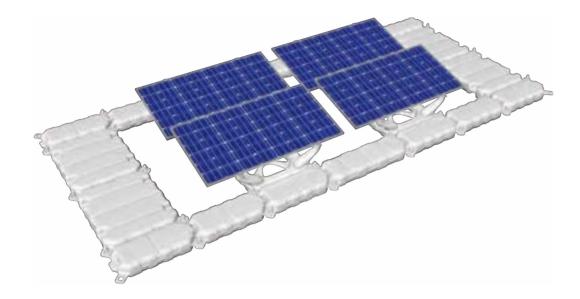


Fix the solar module with Inter Clamp Kit & End Clamp Kit.



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# Floating PV Mounting System G4N



# **Technical Parameters**

Product Name	MRac Floating PV Mounting System G4N	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Lake, Reservoir		International Building Code IBC 2009,
Tilt Angle	5°、10°、15°		California Building Code CBC 2010
Wind Load	≤42m/s	Material	HDPE
Snow Load	≤1KN/m²	Fastener	Zinc-Nickle Alloy&HDPE&Q235B
Water Surface Clearance	> 300mm	Small Components	AL6005-T5 (Anodized)
Module Type	Frame or Frameless	Color	Gray or Customized
Panel Orientation	Landscape, Double Row	Bearing Weight	Module Floater 70KG/m², Walkway Floater 155KG/m²

# Overview

MRac Floating PV Mounting System G4N is applied to solar pv power plant installation on the water. Adopting HDPE material, it has passed the Hunt Water Absorption Test, Anti-Aging Test, Anti-UV Test etc. Moreover, it can bear the pulling force that is much higher than other products. Adopting new module design in floater and main floater, it can realize the array of double row in the same facing or in symmetrical facing, which can increase the efficiency of solar power generation and installation capacity, be easily installed, and save the cost. and its lifetime has more than 25 years.









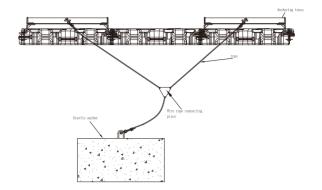




# Advantages

- > Modular design, simple and convenient splice installation;
- > Increase the volume of floater to add the buoyant force of floater;
- > The floater is made of high density polyethylene, which ensures its long service time;
- > Various array design, easier to combine;
- > Realize symmetrical facing array, increase the installation capacity, maximize the efficiency of power generation;
- > Compatible with various solar module, save the cost;
- > Strong weather ability, easy to operation and maintenance.

# Structure



# **Component Details**



Portrait Walkway Floater

Material: HDPE



Short Horizontal Walkway Floater

Material: HDPE



Long Horizontal Walkway Floater

Material: HDPE



Module Floater

Material: HDPE



Support

Material: HDPE



Plastic Bolts and Nuts

Material: HDPE



Module Clamp

Material: AL6005-T5 (Anodized)



**End Clamp Kit** 

Material : AL6005-T5 (Anodized) SUS304

#### **Installation Guide**



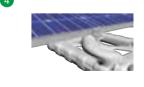
Module Floater.



Install Support.

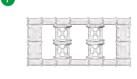


Install Module Clamp.



Install Module.





Finish the installation of floaters.



Ground Series 41



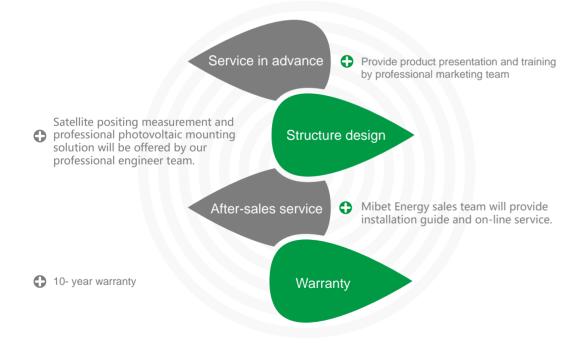


Service

# **Declaration of 10-year Warranty**

- Xiamen Mibet New Energy Co., Ltd. (hereinafter as "Mibet Energy") warrants to the original purchaser ("Purchaser") of product(s) that it manufactures ("Product") at the original installation site that the Product shall be free from defects in material and workmanship for a period of ten (10) years, except for the anodized finish which shall be free from visible peeling, or cracking or chalking under normal atmospheric conditions.
- The after-sales service will not cover any man-made damage or any damage caused by the environment which is corrosive to solar mounting. Please read through the Cleaning and Maintenance Guide for Architecturally Finished Aluminum AAMA 609&610-02(please refer to www.aamanet.org). Mibet energy solemnly promises to offer after-sales services for damages, which is not made by men, during transport, storage, and installation.
- Mibet Energy will not be responsible for any damage during the installation caused by non-compliance with the installation guide, by any alteration, rework and modification unauthorized by Mibet Energy, or by any design defect of drawings provided by the customer.
- Please ask the relevant suppliers for warranty declaration for other devices in solar system, e.g. solar modules and flashing. Mibet Energy is only responsible for solar mounting systems.

# **Support and Service**



**Xiamen Mibet New Energy Co., Ltd.** 

# **MIBET ENERGY**

