



As an Industry-Leading Service Provider and Supplier of Photovoltaic Intelligent Tracking Solutions, We are Committed to Sustainable Development and Fulfilling Social Responsibilities.

Provide High-quality Clean Energy for the Sustainable Development of Human Society

Contribute to Zero Carbon World



Environment-friendly Production

Reduce Scrap Rates, Reduce Energy Consumption and Waste Emissions; Pass ESG Certification In 2022; ISO14067 (Carbon Label Standard) and ISO 14064 (Carbon Footprint Standard) In 2023



Empower the World Win-win Partnerships

Powerway has more than 400 Clients and Completed 1500+ Photovoltaic Power Projects Around the World;

Increasing Power Generation by 26% and Yield by 10-15%.



Technological Innovation

Powerway Participated in Drawing Up the Domestic Industry Standards. Built an International Standard R&D Laboratory and Contribute to the Innovation of Industry Technology.; Continuously Devote to the PV Solution More Stable, More Energy-saving.





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Powerway References

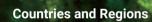
About Us:

Guangdong Baosong Industry Technology Co., Ltd. founded in 2010 is a leading global solutions provider of solar mounting systems, with headquarter in Foshan city, Guang Dong province, China andbranch office in Czech/Japan/Malaysia/Philippines. With 14 years of commitment to innovation and reliability, our products meet international certification standards, such as BV,CE,IEC ,TUV and collaboration with CPP and RWDI. Specializing in utility-scale solar projects, our solutions are known for their outstanding economy, durability, and reliability. To date, we have delivered over 20GW of products and services in 80+ countries. contributing to clean, sustainable power and the decarbonization of society, continues to be a trustedname, with a strong global presence and strategic partnerships in the renewable energy industry.



20 GW+
Cumulatively Installed







Years Specialized in PV Systems



110 +



6 GW+
Annual Production Capacity











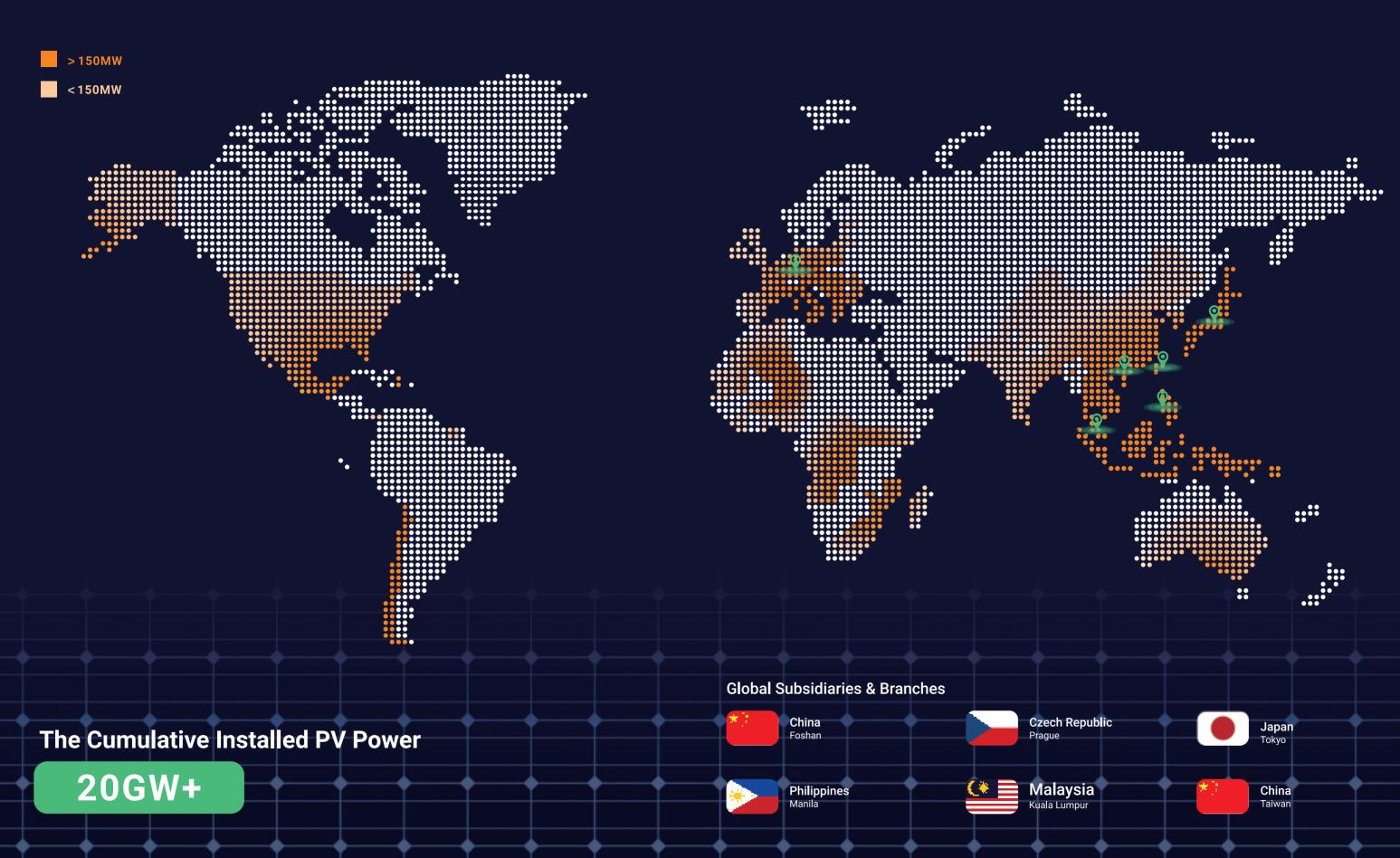












R&D and Innovation



Powerway is committed to providing efficient clean energy solutions and continuously optimizing product performance.



International Standard zation Laboratory



System Optimization Study



Racking Performance Evaluation and Limiting Condition



Scenario Adaptability Study



System Application Lifetime Study







Structural Design • Material Selection

- Framework Design
- Mechanical Design





Foundation Design • Pile Foundation Type Review • Foundation Size and

Bearing Capacity Design



Construction Design
• Layout Design, Installation Drawing









Accessories List

- Accessories and Consumables List
- Unloading and Construction Tool List



- Technical Support
 Pre-project design and Basic Construction Guidance
- · Construction Site Technical



After-sales Service

- Operation and Maintenance Guidance Documents
- Maintenance Recommendations

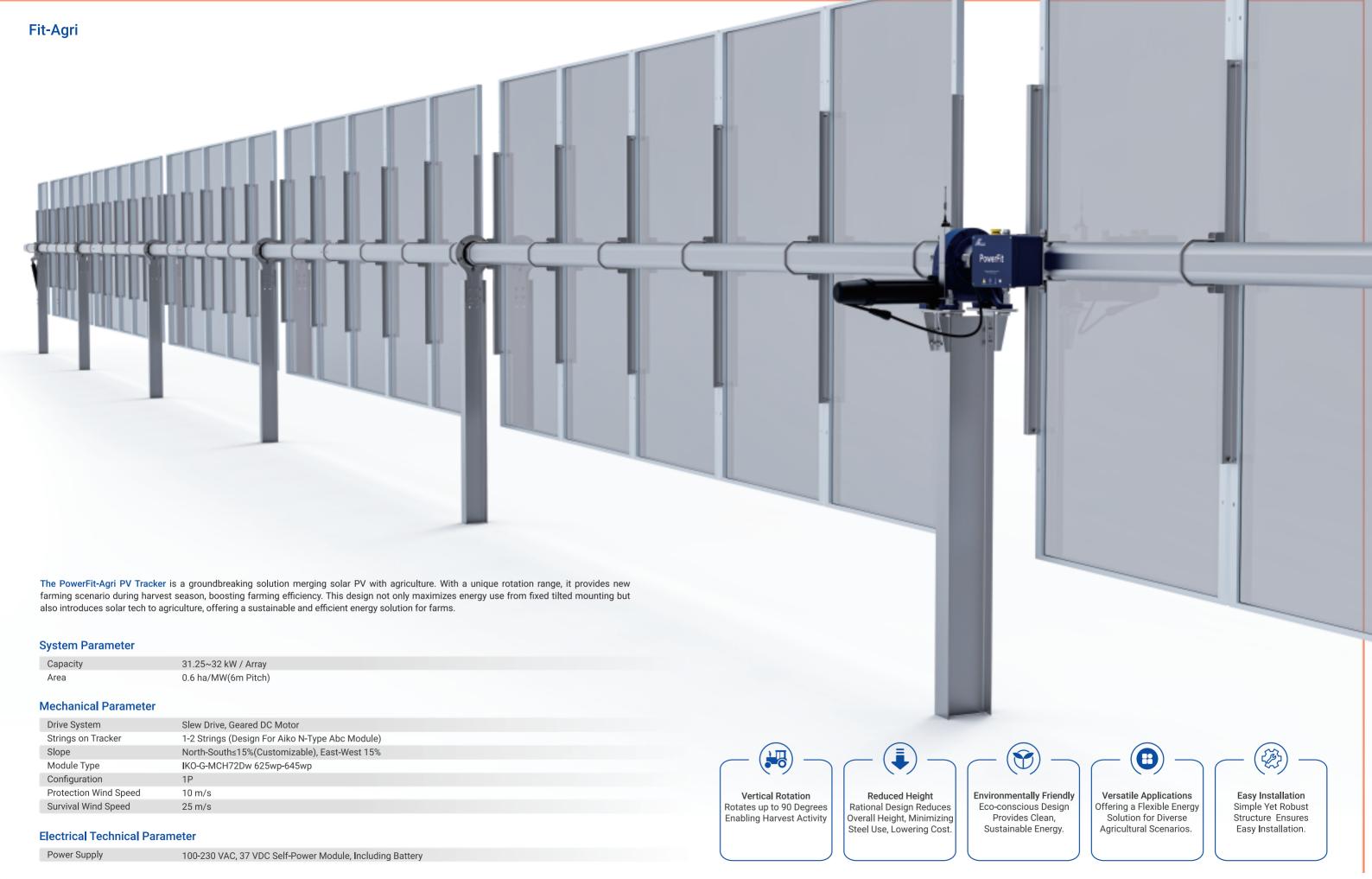












Intelligent Tracking Algorithm



Intelligent Operation and Maintenance

- Dynamically Monitor The Operating Status Of The Bracket
- Real-Time Display Of Bracket Failure Alarms
- Storage Bracket Key Information Log



Improve Power Generation Efficiency

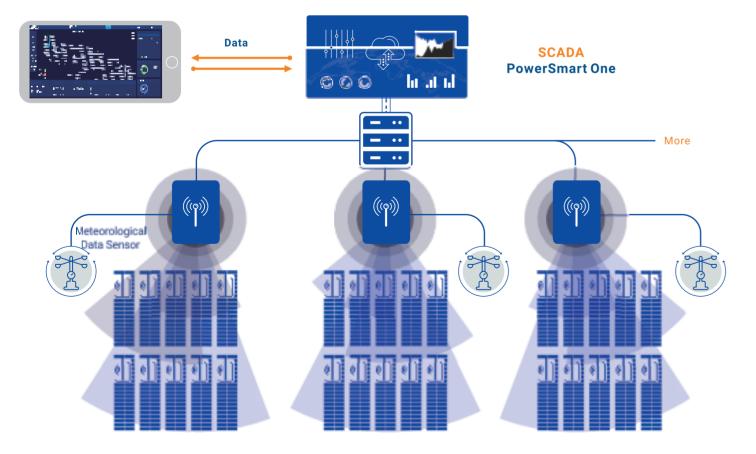
- · Control Bracket Operating Mode & Target Angle
- · Set Stand Parameters Individually Or In Groups



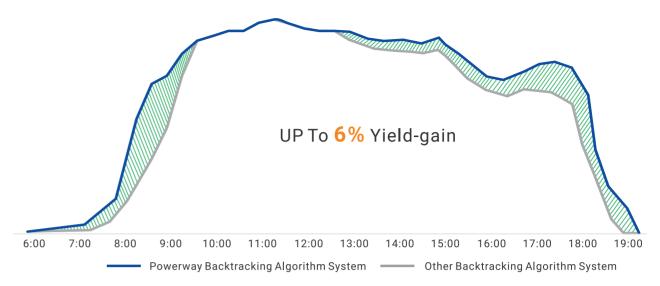
Cut Costs

Powerway Tracking Intelligent Solutions Include

tracking brackets, tracking bracket controllers, communication controllers, intelligent algorithms, and monitoring platforms. They can also be flexibly matched with other equipment such as power station side SCADA and inverters to create an integrated photovoltaic tracking system solution.

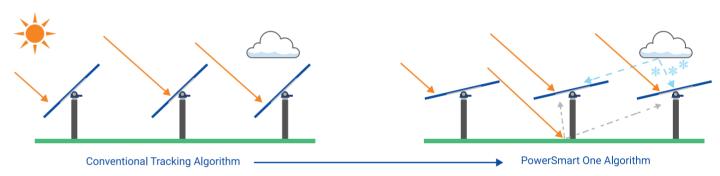


PowerSmart One Astronomical Algorithm



Part1 Intelligent Tracking Algorithm— Increase Power Generation in Cloudy Weather and Other Weather Conditions

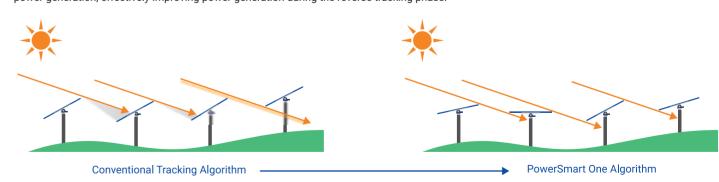
Based on meteorological and system operation data, the best tracking angle is dynamically optimized in real time to increase power generation in weather with high scattered radiation.



- · Multi-dimensional analysis to ensure optimal power generation throughout the cycle;
- · Reduce the rotation of the bracket and effectively extend the service life of the motor and bracket.

Part 2 Intelligent Reverse Backtracking Algorithm— Reduce the Loss of Power Generation Due to Shading in Complex Terrain

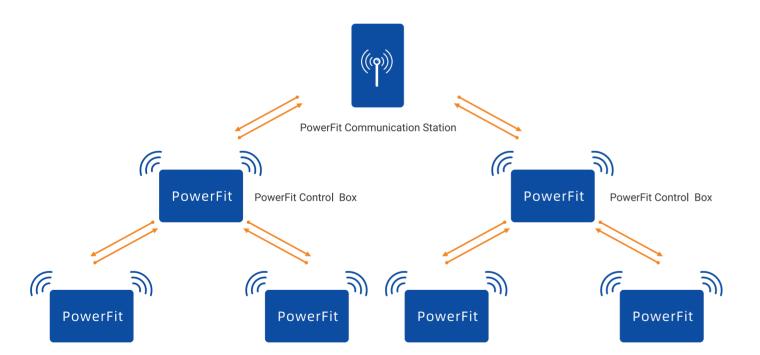
The system operating data is used to optimize disturbance training and sensing technology is used to identify occlusions to construct a three-dimensional terrain. Based on machine learning algorithms, iterative decisions are made to output the optimal reverse tracking angle group for overall power generation, effectively improving power generation during the reverse tracking phase.



- ·A variety of technologies intelligently identify real terrain;
- ·Automated tracking without human involvement;
- ·Precisely optimize the reverse tracking angle.

HSATP/PSO Intelligent Tracking System





Electrical Technical Parameter

Power Supply	L+N 90-240VAC 37VDC+UPS
Overall Function	High-performance processor, OTA upgrade procedure
Battery management	Low consumption power station monitoring Intelligent management of battery charge and discharge time
	Low temperature battery management system
Communication	Communication timeout strategy
Operating Temperature	Lowest to -40 °C
Cabinet Characteristics	IP67, Anti-aging, antiflaming, C5-M 30-year



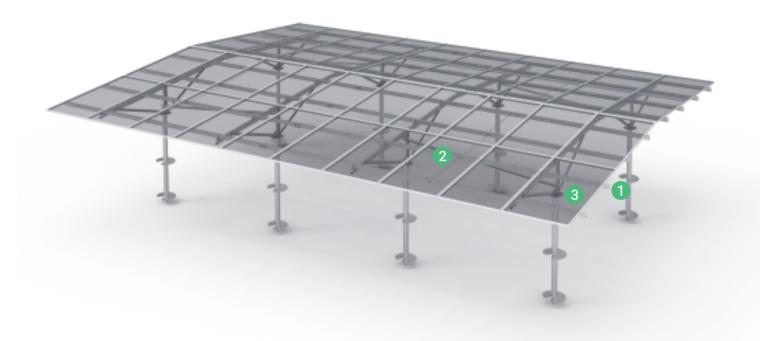
Electrical Technical Parameter

Power Supply	AC, Self-power Module37VDC+Battery, String-powered 300-1500VDV+Battery(Optional)			
Overall Function	High-performance processor OTA upgrade procedure			
Motor	Motor software current limit protection/recovery, Motor inrush current limit start and stop			
Battery management	Intelligent management of battery charge and discharge time			
	Low temperature battery management system			
Operating Temperature	Lowest to -40°C			
Cabinet Characteristics	IP67, Anti-aging, antiflaming, C5-M 30-year			
Reliability	Anti-thunder, Over current, Run Protect, Soft Start Power off, On Protect and Resume			

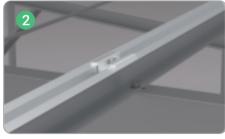


East-West Double Posts Mounting System

Double Post Fixed Structure System









There are many advantage of the East-West double posts mounting system. Its structure is more stable and can support more solar panels, increasing the yield of power station. Compared with the same capacity power station system, less support materials are used. East-West double posts mounting system reduces the quantity of piles and installation time.

Technical Specifications

Foundation Type	Ground Screw, Concrete Foundation, Pile-rampost Integration			
Material	Aluminum Alloy, HDG Steel, MAC steel			
Mounting Angle	3°-20°			
Wind Load	Customizable			
Layout	Customizable			



Stable Structure Easy Installation



Diversified Pile Foundation Types



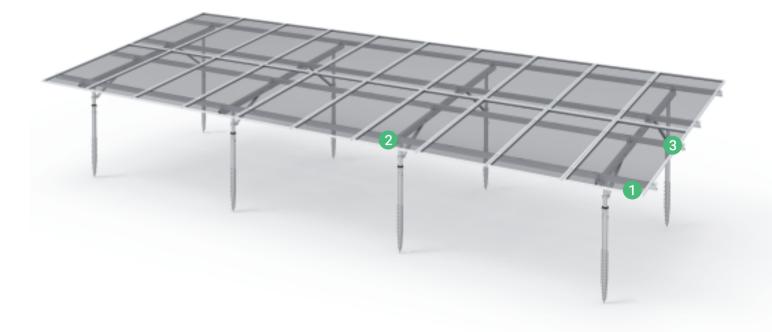
Component Installation Configuration Flexibility to Meet Various Customer Needs



Adapt to different environment and terrains



Product pre-installed No Welding Required on Site









The double-post fixed mounting system has a stable structure, different scenario adaptability, convenient installation and excellent anti-corrosion performance. The whole mounting system can be used in harsh outdoor environment for long time.

Technical Specifications

Foundation Type	Ground Screw, Concrete Foundation, Pile-rampost Integration
Material	Aluminum Alloy, HDG Steel, MAC steel
Mounting Angle	5°- 45°
Wind Load	Customizable
Lavout	Customizable



Simple Structure Easy Installation



Diversified Pile Foundation Types



Component Installation Configuration Flexibility to Meet Various Customer Needs

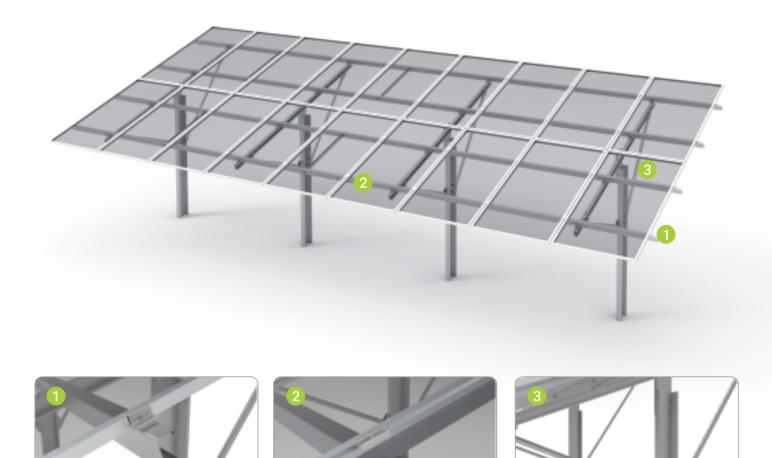


Adapt to different environment and terrains



Product pre-installed No Welding Required on Site

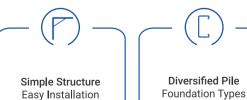
Single Post Fixed Structure System



The single post fixed mounting system is specially designed for quick installation. Its unique adjustable connection design make the whole structure adapt to different kinds of terrains flexibly.

Technical Specifications

Foundation Type	C-shaped Steel, H-shaped Steel, Concrete Foundation, Ω-shaped Steel, PHC Pile				
Material	Aluminum Allov, HDG Steel, MAC steel				
	· · · · · · · · · · · · · · · · · · ·				
Mounting Angle	5°-45°				
Wind Load	Customizable				
Layout	Customizable				



Component Installation Configuration Flexibility to Meet Various Customer Needs



Adapt to different environment and terrains



Product pre-installed No Welding Required on Site

Foundation Series

The product features an integrated pile design and a simple structure to provide effective protection against winds and snow, and can be easily installed. The section steel surface has undergone galvanizing to ensure it remains corrosion-proof. The section steel pile can be quickly driven to the underground by a pile driver, after which the support structure and briquettes can be assembled into a rack system, which can be easily installed and thus offers significant savings in time and labor costs for the implementation of large photovoltaic projects.

Technical Specifications

Pile Types	C-shaped Steel, H-shaped Steel, Ω-shaped Steel
Pile Diameter	Customization Available
Pile Lengths	2000~5000mm
Material Quality	Q235B; Q355B
Application Scope	Applicable to Various Types of Non-rock Soil
H-shaped steel	
C-shaped steel –	
Ω-shaped steel	

The Powerway Screw Pile Foundation System is suitable for use in the photovoltaic, wind energy, and construction industries. It is very popular both inside and outside the industry thanks to its excellent bearing capacity, stability, sedimentation-resistance, and strain resistance. Since the system uses a Q235B/Q355B steel section, the foundation can be installed without the need for digging or pouring cement. Thus, it meets different bearing requirements in various geographical environments to ensure the stability of the foundation. In response to different market requirements, Powerway has a ground anchor production line and a special design team that provides key customers with customized designs in terms of form and practical standards.

Technical Specifications

•		
External Diameter	76mm	
Wall Thickness	3.0-4.0mm	
Flange diameter	3-M12EQC; Large Blade: Customizable	
Material	Hot-Dip Galvanizing	
Small Blade		
Large Blade		
Flange Disc and Small Blade		
Flange Disc and Large Blade		

Greenhouse Solar System

Powerway Agricultural Greenhouse Power Station System is a highly pre-installed agricultural power station system suitable for agricultural greenhouse vegetable cultivation and photovoltaic power generation. The patented architecture and clamp greatly improve installation efficiency and reduce labor costs. The modules are easy to be assembled and unassembled, and are designed to facilitate the adjustment of light transmittance in order to meet the growth need of crops. The material is highly resistant to soil acid corrosion and the structure height can be adjusted to adapt to complicated terrains. The system life and power station operation time can be guaranteed. The system is the best choice for agricultural photovoltaic greenhouse power stations.







Simple Structure Installation is Easier



Diversified PileFoundation Types



Component Installation Configuration Flexibility to Meet Various Customer Needs



FriendlyEnvironment and Terrain



Product pre-installed No Welding Required on Site

Agricultural Photovoltaic Greenhouse System



On the basis of agricultural greenhouse, it has been upgraded to Agricultural Photovoltaic Greenhouse, which provides high yield electricity while ensuring the healthy growth of crops.

•The arrangement of solar modules can be spaced or overall arranged. Spacing arrangement can increase the transmittance of light, suitable for planting light-favored crops, the aesthetic extent is also improved therewith. The overall arrangement is suitable for planting shade-favored crops.
•The scale of the Agricultural Photovoltaic Greenhouse can be customized according to the actual demand, in order not to damage the farmland, or affect the growth of crops, while achieve the maximum benefit of the Agricultural Photovoltaic Greenhouse.







Simple Structure Installation is Easier



High Cost Performance High Comprehensive Economic Rate of Return



Component Installation Configuration Flexibility to Meet Various Customer Needs



Friendly Environment and Terrain



Product pre-installed No Welding Required on Site

Vertical Mounting System

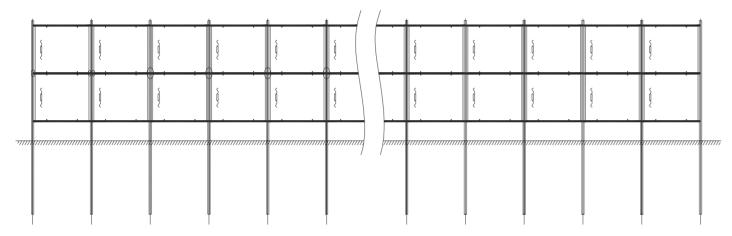
Thevertical mounting system enables new approaches for the utilization of solar energy especially in agricultural areas. The solid steel construction consists of mullions and cross beams. Two mullions and three crossbeams hold vertically bifacial modules.

Added value for the nature

The linear structures and the low level of overbuilding create valuable natural grass areas, in which additional specific habitat structures can be established. In addition to agricultural usage, the broad distances between the rows also offer room for agri-environmental measures or compensation areas.

Highest profitability

In the system construction kit, there are numerous adaption possibilities. Glass-glass modules and the mounting system both have a long life-cycle. With the nearly shade-free mounting system for bifacial modules, a technical additional yield of 20% is reached.



Flexibility in Purpose and Design

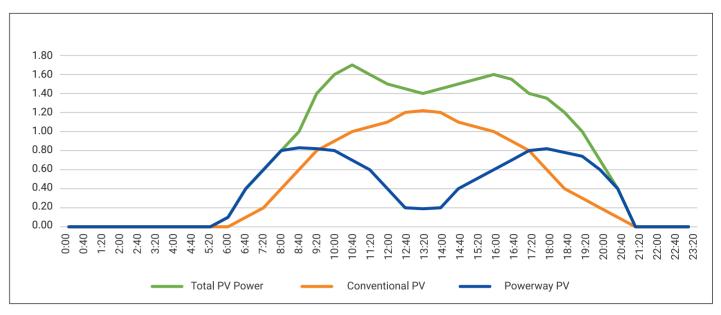
Outstanding adjustment to the terrain

Few components

Technical Specifications

Material	MAC steel S350/S420		
Construction	Mullion and crossbeam construction with tension-free clamping		
	Construction components that can be levelled for adjustment to the terrain conditions		
Module connector	Module connection type		
	A2-70 stainless steel fastener		



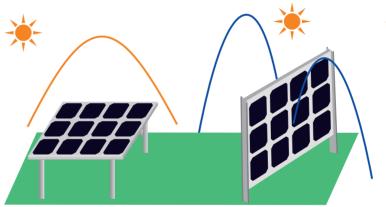


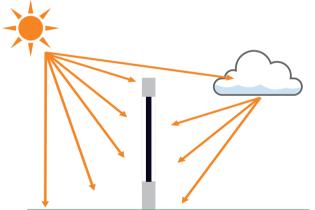
Combination of east-west-oriented vertical bifacial Agro-PV and conventional south oriented PV supports the grid integration by abroad and stable electricity

N2S Vertical bificial Agro-PV system support the PV grid integration by its electricity production profile

Conventional flat-mounted PV systems with south orientation Powerway systems with east-west orientation

Extra energy yield thanks to indirect radiation Vertical Bifacial PV can have extra energy yiele when compared to tilted systems,up tp 15%





Beneficial production profile with peak production in the morning and in the evening hours Mapping of energy supply and demand more efficient than storage Production profile of N2S vertical bifacial Agro-PV-System nearer to electricity demand





Roof-top Aluminum Rail Series





G11042 Model: Height: 45 mm Width: 30 mm Wx: 1707 mm³ Wy:

2478 mm³

Model:

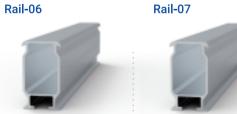
Height:

Width:

Wx:

Wy:

Rail-02



G11039 Model: Height: 40 mm Width: 23 mm Wx: 1664 mm³ Wy: 1058 mm³

G11040 Model: Height: 40 mm Width: 23 mm 1653 mm³ Wx: Wy: 1016 mm³

G11043

50 mm

30 mm

2908 mm³

1896 mm³

Rail-03

Rail-08

Model:

Height:

Width:

Wx:

Wy:



G11044 Model: Height: 45 mm Width: 30 mm 2431 mm³ Wx: Wy: 1666 mm³

G11041

35 mm

23 mm

1330 mm³

904 mm³

Rail-04



G11045 Model: Height: 45 mm Width: 30 mm Wx: 2020 mm³ Wy: 1980 mm³



G11038 Height: 35 mm Width: 30 mm 1351 mm³ Wx: Wy: 1556 mm³

Rail-09



G11025 Model: Height: 55 mm Width: 30 mm Wx: 2664 mm³ Wy: 2656 mm³

Rail-10



G11008 Model: 35 mm Height: 30 mm Width: Wx: 1248 mm³ 2003 mm³ Wy:

Rail-11



G11022 40 mm 30 mm 1317 mm³ 1836 mm³ Model: G11037

Heiaht 40 mm Width: 30 mm Wx: 1464 mm³ Wy: 1845 mm³

Model: Height: Width: Wx: Wy:





1700 mm³



Model: G11033 Heiaht: 35 mm Width: 30 mm Wx: 1080 mm³ Wy: 1615 mm³

Rail-14



Model: G11046 Heiaht: 40 mm Width: 30 mm Wx: 1330 mm³ Wy: 2080 mm³

Rail-16

Model:

Heiaht:

Width:

Wx:

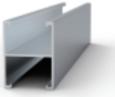
Wy:



G11031 Model: Height: 40 mm Width: 30 mm Wx: 1223 mm³ Wy: 1844 mm³

Rail-17

Rail-12



G11030 Model: Heiaht 40 mm Width: 30 mm Wx: 1184 mm³ 1746 mm³



Model: G11024 Height: 40 mm Width: 60 mm Wx: 2771 mm³ Wy: 2365 mm³



Model: G11036 Heiaht: 41 mm Width: 40 mm Wx: 1948 mm³ Wy: 2248 mm³



Model: G11032 Height: 32 mm Width: 30 mm Wx: 1108 mm³ Wy: 1421 mm³

Rail-21



Model: G11007 Height: 32 mm Width: 30 mm Wx: 1157 mm³ 1677 mm³ Wy:

Rail-22



Model: G11098 Height: 40 mm Width: 35 mm 2551 mm³ Wx: Wy: 2102 mm³

Rail-23



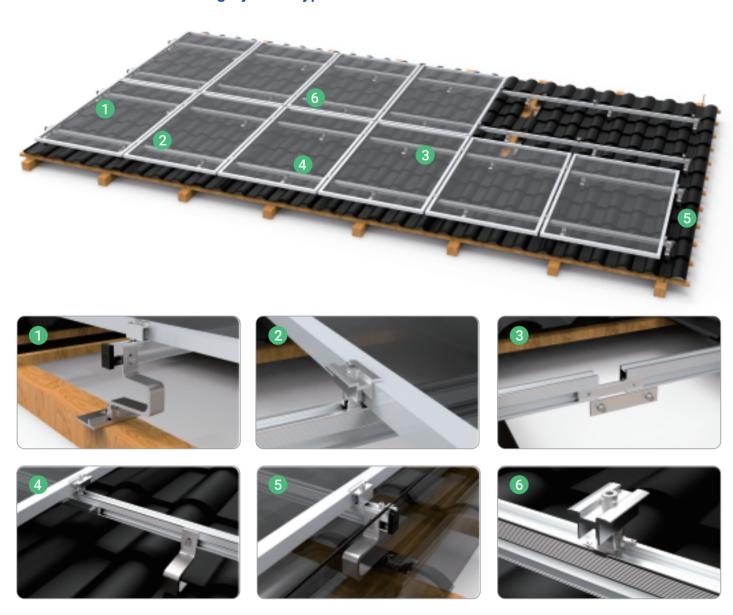
Model: G11057 Height: 40 mm Width: 30 mm 2258 mm³ Wx: 1801 mm³ Wy:

Note:

The above rails can be applied to various forms of roofs through different connection methods. The length of the rail can be customized. The material of the guide rail is generally 6005T5 or 6063T6, etc. The surface treatment can be wool, Anodizing or electrophoretic Anodizing. The color can be original or customized black, etc.

Wx(mm³)&Wy(mm³)are parameters that characterizes mechanical properties.

Pitched Tile Roof Mounting System Type A



Powerful, Stable And Flexible

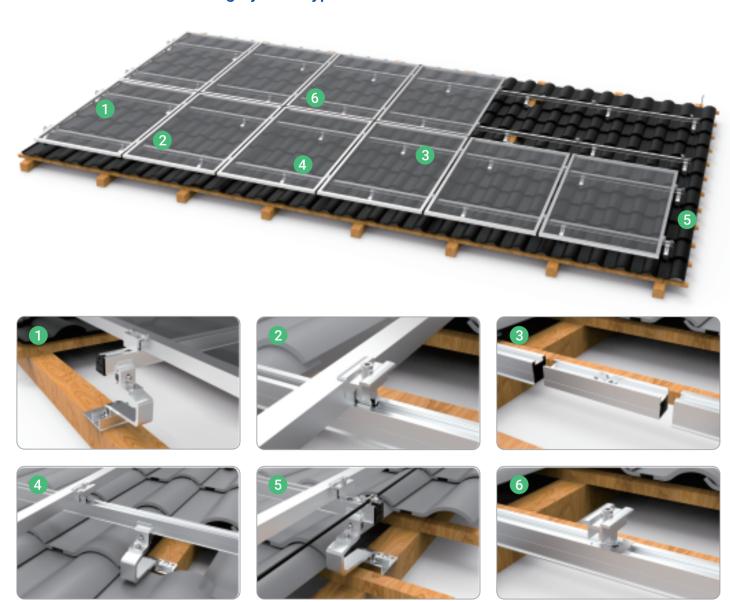
- Components Usable Across Different Roof Types
 Adjustable Roof Hook to Level out Uneven Roofs, For Different Tile Strenghts and Shapes
 Quick Mounting From Above With Easily Graspable Components
 Rails and Clamps Available In Silver Anodized and Black Anodized

Technical Specifications

Roof Angle	5°-50°
Wind Load	0~0.5kN/m² or -1.2kN/m²~0
Snow Load	0~1.6kN/m²
Applicable Solar Module	Frame
Panel Layout	Portrait
Design Standard	AS/NZS 1170, DIN 1055, JIS C 8955: 2017 IBC 2009, EN 1991-1, California Building Code CBC 2010
Stand Material	AL6005-T5
Fastener Material	SUS304
Surface Treatment	AL6005-T5: AA10μm,
Color	Natural Silver or Black
Warranty	10 Years

Number		Component Code	Designation	4 Panel	6 Panel	8 Panel	10 Panel	12 Panel
1		PW-RA01-2.4	Rail 2400mm	4	6	8	10	12
2	2 3	PW-SP-RA	Rail Connector	2	4	6	8	10
3	IJ	PW-EC-RA	End Clamp	4	4	4	4	4
4		PW-MC-RA	Mid Clamp	6	10	14	18	22
5	1	PW-HA01/RA	Aluminum Hook *Adjust the quantity	*10-14 pased on th		*16-26 etween woo	*20-32 oden beams (*24-38 0.8-1.4m)
6	0.86	PW-IS-GL/RA	Ground Lug	4	4	4	4	4
7		PW-IS-EC/RA	Earth Clip	3	5	7	9	11
8	3	PW-IS-CC	Cable Clip	2	2	2	2	2
9	4	PW-IS-RC	End Cap	4	4	4	4	4

Pitched Tile Roof Mounting System Type B



Powerful, Stable and Flexible

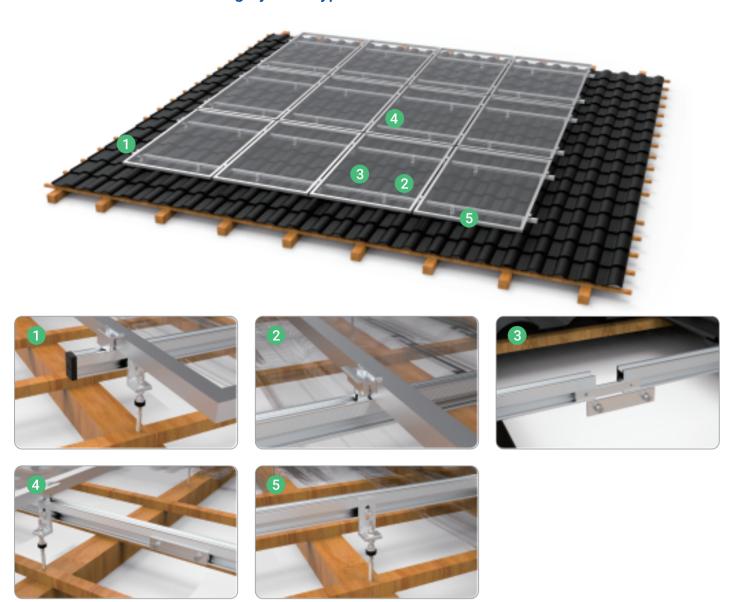
- Components Usable Across Different Roof Types
 Adjustable Roof Hook to Level out Uneven Roofs, For Different Tile Strenghts and Shapes
 Quick Mounting From Above With Easily Graspable Components
 Rails and Clamps Available In Silver Anodized and Black Anodized

Technical Specifications

•	
Roof Angle	5°-50°
Wind Load	0~0.5kN/m² or -1.2kN/m²~0
Snow Load	0~1.6kN/m²
Applicable Solar Module	Frame
Panel Layout	Landscape or Portrait
Design Standard	AS/NZS 1170, DIN 1055, JIS C 8955: 2017 IBC 2009, EN 1991-1, California Building Code CBC 2010
Stand Material	AL6005-T5
Fastener Material	SUS304 or 10B21
Surface Treatment	AL6005-T5: AA10μm,
Color	Natural Silver or Black
Warranty	10 Years

Numbe	r	Component Code	Designation	Specification
1		PW-RA22-2.4	Rail	40x41 AL6005-T5
2		ÞW-SP-RA	Rail Connector	L=200mm AL6005-T5 SUS304
3	1j	PW-EC-RA	End Clamp	L=50~80mm & Spring & Spring Washer & Clamp Aluminum Nut
4		PW-MC-RA	Mid Clamp	L=50~80mm & Spring & Spring Washer & Clamp Aluminum Nut
5	No.	PW-HA02/RA	Aluminum Hook	L=110mm AL6005-T5 SUS304 & Spring & Flat Washer & Spring Washer
6		PW-IS-EC/RA	Ground Lug	L=30mm SUS304 M8x12
7	>	PW-IS-EC2/RA	Earth Clip	SUS304 38*49*0.3
8	3	PW-IS-CC	Cable Clip	SUS304 10x0.6
9		PW-IS-RC2	End Cap	PA6+GF20%+UV0.5% 40x41x21

Pitched Tile Roof Mounting System Type C



Powerful, Stable and Flexible

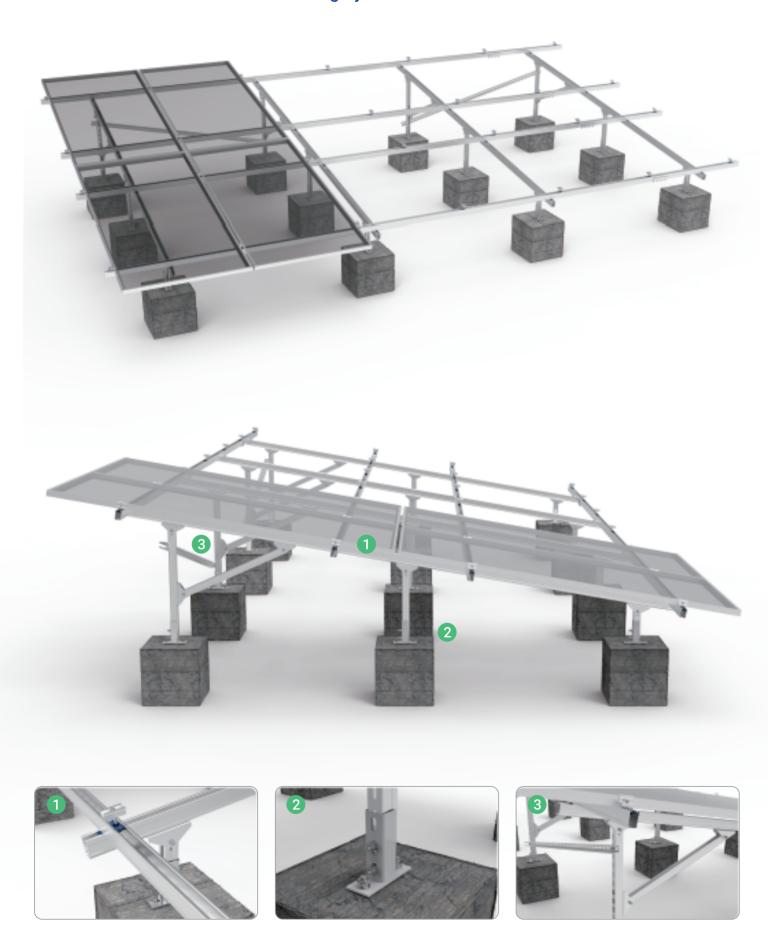
- Components Usable Across Different Roof Types
 Adjustable Roof Hook to Level out Uneven Roofs, For Different Tile Strenghts and Shapes
 Quick Mounting From Above With Easily Graspable Components
 Rails and Clamps Available In Silver Anodized and Black Anodized

Technical Specifications

Mounting Angle	Parallel to roof surface
Wind Load	Customised
Snow Load	Customised
Applicable Solar Module	Frame
Module orientation	Landscape or Portrait
Stand Material	AL6005-T5
Fastener Material	SUS304 or SUS410
Surface Treatment	Anodized: no Less than 10μm, Excluding Machined Surfaces
Color	Natural Silver or Black
Warranty	10 Years

Number	Component Code	Designation	Specification
	PW-RA01	Rail	30x50 AL6005-T5
2	PW-SP-RA	Rail Connector	L=140mm & 2x Hex Bolt M8x25 & 2x Flat Washer & 2x Spring Washer
3	PW-EC-RA	End Clamp	L=50~80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nut & Spring
4	PW-MC-RA	Mid Clamp	L=50~80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nut & Spring
5	PW-LF01/RA	Rail Support Parts	L=40mm L Sheet & M10X200 & Hex Bolt M8x25 & 2x Flat Washer & Spring Washer & Flange Nut & Clamp Aluminum Nut & Waterproof Rubber Pad
6	PW-IS-RC2	End Cap	31.8*51.4*11 EPDM

Flat Roof Cement Foundation Mounting System



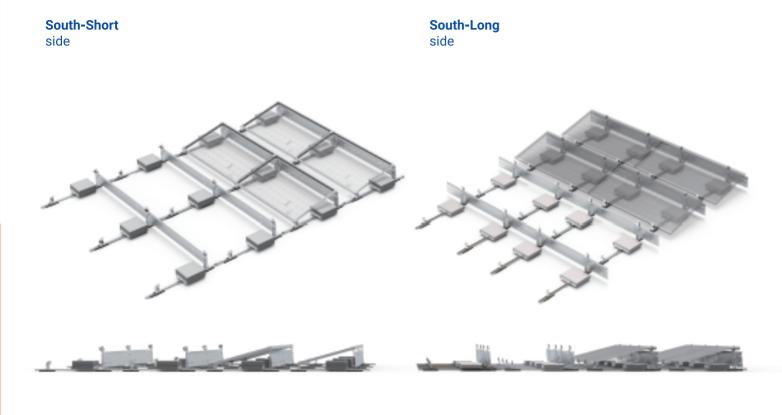
Technical Specifications

Module Orientation	Portrait, Landscape,
PV Module	Framed or Unframed
Wind Load	Customised
Snow Load	Customised
Application	Roof top, Ground
Inclination Angle	5~60°
Material	Main Structure: MAC Steel Clamp: Aluminum AL6005-T5 Fasteners: Carbon steel & SUS304
Certification	TUV, CE
Standard	AS/NZS 1170, DIN 1055, JIS C 8955: 2017, IBC 2009
Warranty	10 Years

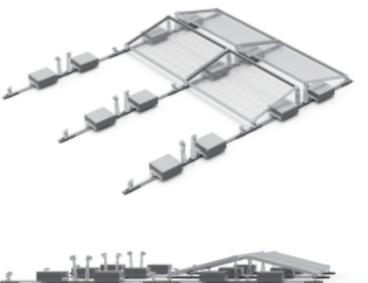
Note: The cement foundation is provided by the builder

Number		Designation	Specification
1		Rail / Post / Strut	U41*41 / U41*52 / U41*62 / U41*73 Mac Steel
2		Rail Connector	Mac Steel
3		Post/Strut Connector	Mac Steel
4		Base	Carbon Steel ≥HDG 65μm
5	1	Anchor Bolt	M12 Grade 8.8 HDG 50µm
6	1	End Clamp	Aluminum ≥AA10
7	Ţ	Mid Clamp	Aluminum ≥AA10

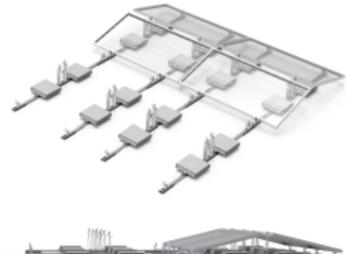
Flat Roof Ballasted Mounting System



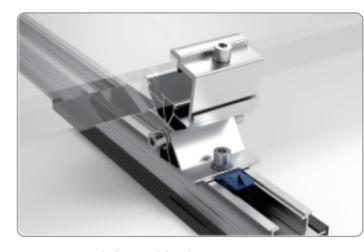
East/West-Short side

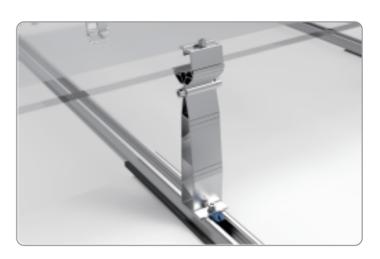


East/West-Long side



Long-Side Clamping





For mounting on the long module side

High loads: Wind Load up to 40m/s; Snow Load up to 5.4 kN/m2 (depending on the system variation and PV modules used) Modules: up to 2384x1303mm.

Short-Side Clamping





For mounting on the Short module side

In the event of moderate snow loads, the PV modules can be clamped on the short side, saving material.

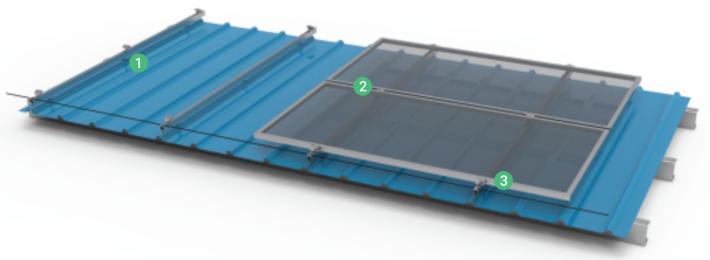
Technical Specifications

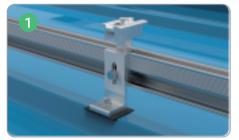
recrimed opecinications	
Mounting Angle	5°, 10°(May Vary Slightly Depending on Module Width)
Clamping Options	Long-side Clamping; Short-Side Clamping
Module Orientation	East / West-facing; South-facing
Wind Load	Up to 40m/s(South-facing); Up to 69.5m/s(East/West-facing)
Snow Load	Up to 5.4 kPa for Long Side; Up to 2.4 kPa for Short Side
Applicable Solar Module	950~1303 mm x 1550~2384 mm (Width x Length)
Stand Material	AL6005-T5
Fastener Material	SUS304 or SUS410
Ballast Size / Quantity	400*400*50mm (19.2kg) / Base on Wind Load(Detail in Installation Manual)
Surface Treatment	AA10µm / Customized
Color	Natural Silver or Customized
Warranty	10 Years

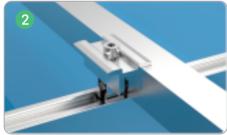
Number	Component Code	Designation	Specification
	PW-BR-01	70mmx22mmxL L=2600mm(For East/West-facing) L=1620mm(For South-facing) AL6005-T5 Natural Silver or Customized	Base Rail
2	PW-FP-01	L=50~100mm L=50mm(For Long-Side Clamping) L=100mm(For Short-Side Clamping) Main Structure:AL6005-T5 Fastener Material:SUS304 Natural Silver or Customized	Front Pedestal Pedestal & Hex Bolt 3-M8x25 & 3x Flat Washer & 3x Spring Washer & 1x Nut Sleeve & 1x Aluminum Nut
3	PW-BP-01(10°) PW-BP-02(5°)	L=50~100mm L=50mm(For Long-Side Clamping) L=100mm(For Short-Side Clamping) Main Structure:AL6005-T5 Fastener Material:SUS304 Natural Silver or Customized	Back Pedestal Pedestal & Hex Bolt 3-M8x25 & 3x Flat Washer & 3x Spring Washer & 1x Nut Sleeve & 1x Aluminum Nut
4	PW-SP-BR-01	46x15x2.5 L=120mm AL6005-T5 Natural Silver or Customized	Base Rail Connector & Hex Bolt 2-M8x25 & 2x Flat Washer & 2x Spring Washer & 2x Nut Sleeve & 2x Aluminum Nut
5	PW-EC-RA	L=50 Main Structure:AL6005-T5 Fastener Material:SUS304 Natural Silver or Customized	End Clamp & Hex Bolt M8x35 & Spring Washer & Spring & Clamp Aluminum Nut
6	PW-MC-RA	L=50mm(For Short-Side Clamping) Main Structure:AL6005-T5 Fastener Material:SUS304 Natural Silver or Customized	Mid Clamp & Hex Bolt M8x35 & Spring Washer & Spring & Clamp Aluminum Nut

Number	Component Code	Designation	Specification
		42x40x2.0 L=350mm	
1	PW-BB-01	AL6005-T5	Ballast Bar
		Natural Silver or Customized	
A		38x9 L=40mm	
2-	PW-BBC-01	AL6005-T5	Ballast Bar Connector
		Natural Silver or Customized	
3	PW-RP-01	79x12 L=300mm	Rubber Pad
	PW-RP-UT	EPDM	Number Fuu
		For South-Long Side/South-Short Side L=1945mm(For Module length:1650-1850mm) L=2145mm(For Module length:1851-2050mm) L=2395mm(For Module length:2051-2300mm)	Wind Deflector
4	PW-WD-01	Main Structure:Zn-Mg-Al Alloy Coating Steel Fastener Material:SUS410	Tapping Screw 4x ST6.3*25
		Natural Silver or Customized	
		36x31.6x0.3	
5	PW-IS-EC/RA	SUS304	Earth Clip
		Natural Silver	
O s		6 Square 2 Lines	
6	PW-IS-CC	SUS304	Cable Clip
4		Natural Silver	
O		6 Square Line	
7	PW-IS-GL/RA	Main Structure:AL6005-T5 Fastener Material:SUS304	Ground Lug
		Natural Silver or Customized	

Trapezoidal Sheet Metal Roof Mounting System Type A









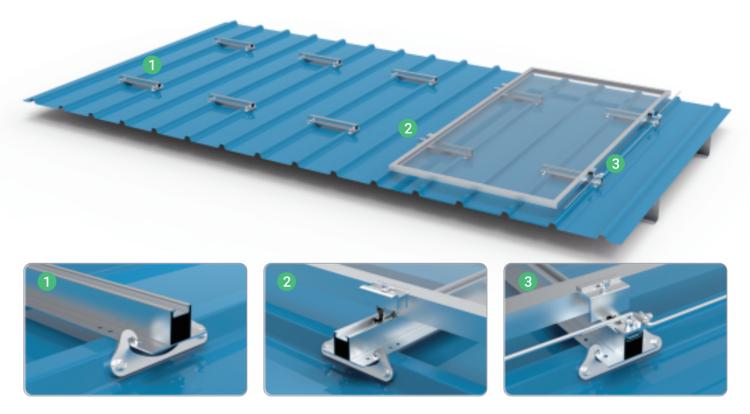
Technical Specifications

Mounting Angle	Parallel to Roof Surface
Wind Load	Customised
Snow Load	Customised
Applicable Solar Module	Frame
Module Orientation	Landscape

Stand Material	Stainless Steel or AL6005-T5
Fastener Material	SUS304 or 410
Surface Treatment	Anodized: No Less than 10µm,
Color	Natural Silver or Customized
Warranty	10 Vears

	Designation	Specification		Designation	Specification
-	Rail	L=2100/4100mm 30x45x1.2 AL6005-T5	Ser.	Ground Lug	L=20mm & Hex Bolt M8*12 & Hex Bolt M6*12 & Spring & Aluminum Nut
	L-Feet	L=30-60mm 40x85x8.0 AL6005-T5		Earth Clip	36*31.6*0.3 SUS304
•	Sealing Gasket	45x60x1.5 EPDM	3	Cable Clip	10x0.6 SUS304
	Rail Connector	L=140mm & 2x Hex Bolt M8*25 & 2x Flat Washe & 2x Spring Washer	6	Rail & T Sheet Connector	L=30mm & Hex Bolt M8x25 & Flat Washer & Spring Washer & Aluminum Nut
113	End Clamp	L=50-80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nut	2	Self-tapping Screw	ST6.3x100 410
	Mid Clamp	L=50-80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nut			

Trapezoidal Sheet Metal Roof Mounting System Type B



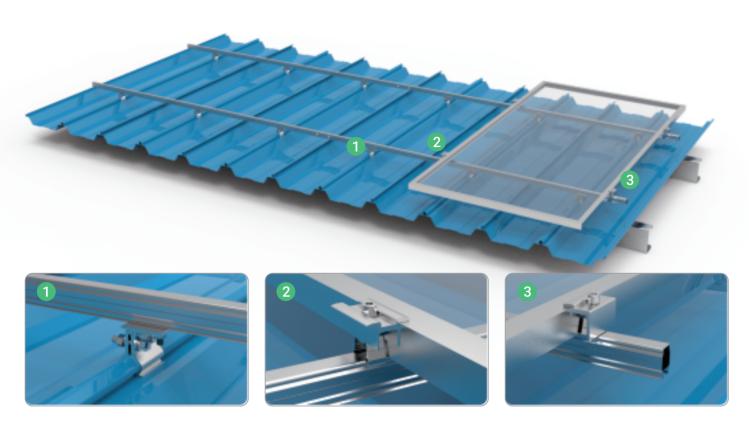
Technical Specifications

Mounting Angle	Parallel to Roof Surface
Wind Load	Customised
Snow Load	Customised
Applicable Solar Module	Frame
Module Orientation	Portrait

Stand Material	Stainless Steel or AL6005-T5
Fastener Material	SUS304 or SUS410
Surface Treatment	Anodized: No Less than 10µm,
	Excluding Machined Surfaces
Color	Natural Silver or Customized
Warranty	10 Years

	Designation	Specification		Designation	Specification
	Rail	L=400mm 35x75x1.2 AL6005-T5		Ground Lug	L=20mm & Hex Bolt M8*12 & Hex Bolt M6*12 & Spring & Aluminum Nut
43	Hook	38x131x3.5 SUS304 & Waterproof Pad		Earth Clip	36*31.6*0.3 SUS304
Ni .	End Clamp	L=50-80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nut	3	Cable Clip	10x0.6 SUS304
	Mid Clamp	L=50-80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nut	0	Self-tapping Screw	ST5.5x19 SUS410

Corrugated Sheet Metal Roof Mounting System Type A



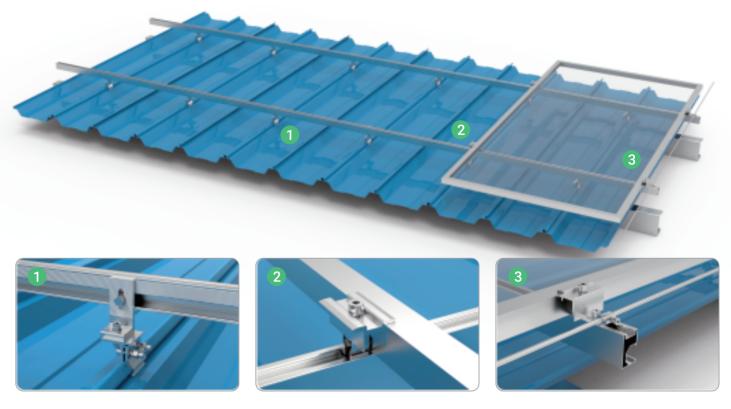
Technical Specifications

Mounting Angle	Parallel to Roof Surface
Wind Load	Customised
Snow Load	Customised
Applicable Solar Module	Frame
Module Orientation	Landscape or Portrait

Stand Material	Stainless Steel or AL6005-T5
Fastener Material	SUS304 or SUS410
Surface Treatment	Anodized: No Less than 10µm,
	Excluding Machined Surfaces
Color	Natural Silver or Customized
Warranty	10 Vears

	Designation	Specification		Designation	Specification
	Rail	AL6005-T5	>	Earth Clip	38x49x0.3 SUS304
	Rib-Roof Clamp	L=50-80mm & Hex Bolt 2-M8x30 & Hex Bolt M8x25 & 5x Flat Washer & 3x Spring Washer & 3x Hex Nut		Cable Clip	10x0.6 SUS304
	Rail Connector	L=100mm AL6005-T5	0	Self-tapping Screw	ST5.5x19 SUS410
15	End Clamp	L=50-80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nut			
FL	Mid Clamp	L=50-80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nut			

Corrugated Sheet Metal Roof Mounting System Type B



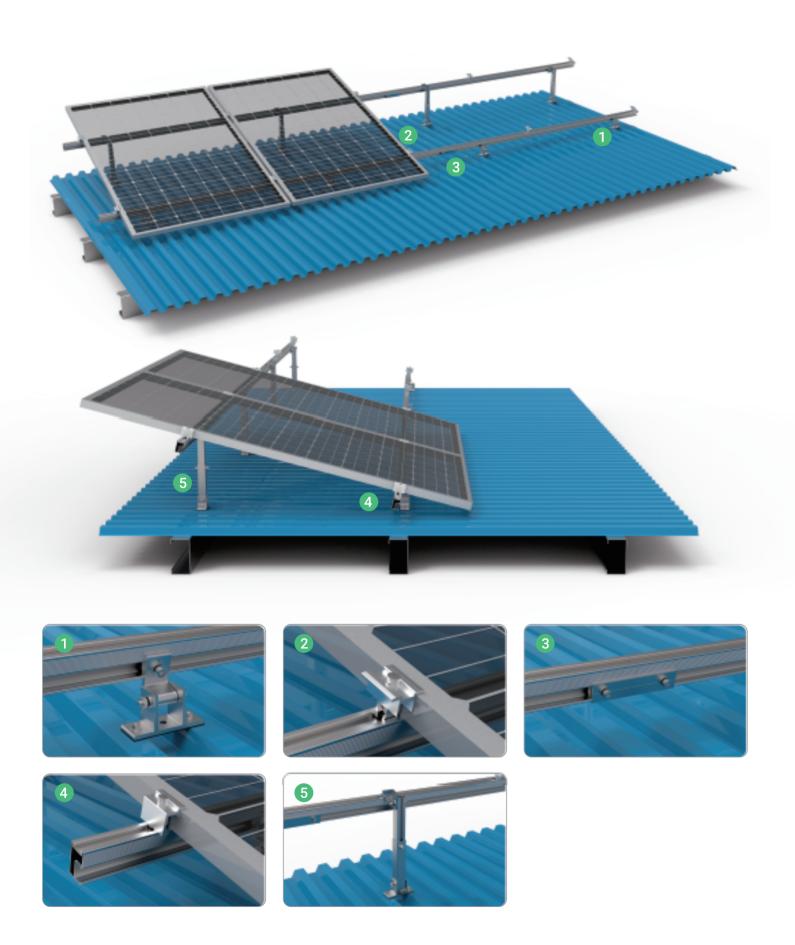
Technical Specifications

организация	
Mounting Angle	Parallel to Roof Surface
Wind Load	Customised
Snow Load	Customised
Applicable Solar Module	Frame
Module Orientation	Landscape or Portrait

Stand Material	Stainless Steel or AL6005-T5
Fastener Material	SUS304 or SUS410
Surface Treatment	Anodized: No Less than 10µm,
	Excluding Machined Surfaces
Color	Natural Silver or Customized
Warranty	10 Years

			Warranty	10 Ye	ars
	Designation	Specification		Designation	Specification
-	Rail	L=2100/4200mm 30x45x1.2 AL6005-T5	Ser les	Ground Lug	L=20mm & Hex Bolt M8*12 & Hex Bolt M6*12 & Spring & Aluminum Nut
0	L-Feet	L=30-60mm 40x85x8.0 AL6005-T5	4	Earth Clip	36*31.6*0.3 SUS304
	Rail Connector	L=140mm & 2x Hex Bolt M8*25 & 2x Flat Washe & 2x Spring Washer	3	Cable Clip	10x0.6 SUS304
1	Rib-Roof Clamp	L=50-80mm & 2x Hex Bolt M8x35 & 2x Spring Washer & 2x Clamp Aluminum Nut	6	Rail & T Sheet Connector	L=30mm & Hex Bolt M8x25 & Flat Washer & Spring Washer & Aluminum Nut
Di .	End Clamp	L=50-80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nut			
	Mid Clamp	L=50-80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nut			

Adjustable Tilt Roof Mounting System



Powerful, Stable and Flexible

- Flexible tilt angle choices: 5°Fixed; 10-15°Adjustable; 15-30°Adjustable; 30-45°Adjustable
 Structural stability: The telescopic rod adopts a closed section design, locked by double-sided bolts.
 Operational protection: The tail of the telescopic rod is designed with an anti-out-of-exit limit structure to prevent installation misoperation

Technical Specifications

Application	Sheet Metal Roof/Concrete Roof	Warranty	10 Years
Tilt Angle	5°Fixed; 10-45°Adjustable	Max wind Speed	60m/s
Applicable Solar Module	Frame	Max Snow Load	1.0KN/m²
Material	Main Structure: AL6005-T5;	Surface Treatment	Anodized:No Less than 10um,
	Fasteners:SUS304&SUS410		Excluding Machined Surfaces
Module Orientation	Landscape or Portrait	Color	Natural Silver or Black
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955:	2017,	
	EN 1991-1, IBC 2009		

	Designation	Specification		Designation	Specification
	Rail Rail Connector	L=2250/4500mm 30x50x1.2~1.6 AL6005-T5 L=140mm & 2x Hex Bolt M8x:20 & 2x Flat Washer & 2x Spring Washe & 2x Hex Nut		10-15*Adjustable Tilt Legs (Options)	L=220~330mm & Hex Bolt M8x60 & Hex Bolt M8x55 & Hex Bolt M8x25 & 5x Flat Washer & 3x Spring Washer & 2x Hex Nut & 1x Aluminum Nut & 2x Tapping Screw ST6.3*8 & 1x Sealing Gasket
市市	End Clamp Mid Clamp	L=50-80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nur L=50-80mm & Hex Bolt M8x35 & Spring Washer & Clamp Aluminum Nur		15-30°Adjustable Tilt Legs (Options)	L=380~635mm & Hex Bolt M8x60 & Hex Bolt M8x55 & Hex Bolt M8x25 & 5x Flat Washer & 3x Spring Washer & 2x Hex Nut & 1x Aluminum Nut & 2x Tapping Screw ST6.3*8
	Front Legs	L=40mm & Hex Bolt M8x60 & Hex Bolt M8x25 & 3x Flat Washer & 2x Spring Washer & 1x Hex nut & 1x Aluminum Nut & 2x Tapping Screw \$16.3 80 & 1x Sealing Gasker		30-45*Adjustable Tilt Legs (Options)	& 1x Sealing Gasket L=380~635mm & Hex Bolt M8x60 & Hex Bolt M8x55 & Hex Bolt M8x25 & 5x Flat Washer & 3x Spring Washer & 2x Hex Nut & 1x Aluminum Nut & 2x Tapping Screw ST6.3*8 & 1x Sealing Gasket
4	5 Fixed Tilt Legs (aptions)	L=100mm & 2x Hex Bolt M8x60 & Hex Bolt M8x25 & 5x Flat Washer & 3x Spring Washer & 2x Hex Nut	E P	Ground Lug	L=20mm & Hex Bolt M8*12 & Hex Bolt M6*12 & Spring & Aluminum Nut
		& 1x Aluminum Nut & 2x Tapping Screw ST6.3*80 & 1x Sealing Gasket		Earth Clip	36*31.6*0.3 SUS304
1	Expansion Bolts (Options,for Concrete Foundation)	Expansion bolt M8x70 & Flat Washer & Spring Washer & Hex Nut	3	Cable Clip	10x0.6 SUS304

Balcony Mounting System type A - Common Edition





Installed on Wall with Expansion Bolts

Balcony Mounting System type B - Standard Edition

Ground/Balcony/Guardrail

0°, 20°-30° Adjustable

AL6005-T5,Steel,SUS304

Landscape (Horizontal)

EN 1991-1, IBC 2000

Natural Silver or Black

AS/NZS 1170, DIN 1055, JIS C8955: 2017,

1150mm

10 Years

1.0KN/m²

35m/s



Installed on the Balcony 20°-30°

Technical Specifications

Application

Tilt Angle

Panel Layout

Max Panel width

Design Standard

Max Snow Load

Material

Warranty
Max wind Speed

Color

Installed on the Balcony 0°

Installed on the Ground

Technical Specifications

Application	Ground/Roof/Balcony/Guardrail	
Tilt Angle	0°, 10°-30° Adjustable	
Material	AL6005-T5,Steel,SUS304	
Panel Layout	Landscape (Horizontal)	
Max Panel width	1150mm	
Design Standard	AS/NZS 1170, DIN 1055,JIS C8955: 2017,	
	EN 1991-1, IBC 2000	
Warranty	10 Years	
Max wind Speed	35m/s	
Max Snow Load	1.0KN/m ²	
Color	Natural Silver or Black	

System Components



Main Column 33.5*50*1.5, L=1300mm



Auxiliary Column 29.5*39*1.1, L=1300mm



Cross Brace 30*30*1.5, L=310mm



Cross Brace 26*25*1.5, L=290mm



Railing Horizontal Support 30*30*1.5, L=1150mm

System Components



Main Column 26*29*1.1, L=1300mm



Railing Horizontal Support 26*29*1.1, L=280mm



Cross Brace 26*26*1.5, L=400mm



Pedestal 95*45*3.5, L=30



Hinge 32*57*2.0(SUS304)

58



Hoop 35*135*2.0 (SUS304)



Hook 230*70*45*1.5 (SUS304)



End Clamps L=50mm



Hoop 35*12*2.0(SUS304)



Hook 190*70*40*2.0(SUS304)



End Clamps L=50mm

Steel Carport PV Mounting System Type A









Carport Structure Characteristics

- New style waterproof structure, solving the the water seepage through equipped water channel and waterproof adhesive strip.
 The truss structure provides a strong guarantee for the overall structural stability and can resist the strong winds and snow, while reducing the requirements of the foundation fabrication.
- 3. The entire frame of the system is designed with cold-formed C-shaped steel, with a lightweight structure, fast installation, and short
- 4.Lower maintenance cost and longer lifetime.

Technical Specifications

Module Orientation	Portrait or Landscape
PV Module	Framed
Wind Load	32m/s(10 min) or Customized
Snow Load	0.85kN/m2 or Customized
Parking space	Single Side Parking/Double Side Parking
Foundation	Concrete foundation
Waterproofness	Roof Structural Waterproof
Inclination Angle	5~10°
Material	Main structure: Cold Formed Steel
Color	Natural or White or Customer Requirement
Standard	AS/NZS 1170, DIN 1055, JIS C 89552017,
	IBC 2009, EN 1991, Building CodeCBC 2010
Warranty	10 Years

Carport Functions

Parking Space Size	Width 2.6m; Length 5.3m; Span 5.5m
Cars / Span	Two
Ground Clearance	3.0m
Door Opening	Non-barrier

Component



60



Tracker System





PowerFit

Chile PMGD Portfolio Projects

300 MW









PowerFit-Plus

Lithuania

Tracker System





PowerFit-Plus

Malaysia





Malaysia

PowerFit-Blade China 24 MW



43 MW

PowerFit-Blade

Iraq

Mounting System-Snow Environment





DuraPower

Japan

3 100 MW



MACPower







Mounting System-Coastal Gale Environment





MACPower

Philippines

120 MW



MACPower & Malaysia 4 155 MW



DuraPower

Quam

88 MW



MACPower

MACPower

China

Mounting System-Mountain Environment

UniPower

Japan

53 MW

DuraPower

Japan

42 MW





71 72

DuraPower

China

30 MW

DuraPower

Philippines

Mounting System-Sand Environment





MACPower

Chile 480 MW







MACPower China 40 MW

MACPower Madagascar

Mounting System-Soft Soil Environment





MACPower

Vietnam
250 MW









PowerRoof Mounting System





Flat Roof Cement Foundation

China





Sheet Metal Roof China 3. 5 MW

Carport PV Malaysia