



Product Catalogue

Solar Mounting Solutions



About PVezRack®

At **PVezRack®** our heritage is founded on the art of engineering and a culture of collaboration.

We've built our legacy with a future focus that still stays true to the fundamentals of sustainable design. We have built a collaborative culture amongst stakeholders from across our industry, which was critical for us to deliver on our mission.

We offer the solar industry, versatile mounting equipment for every application.

PVezRack® is the flagship product line from Clenergy, which has been designing products since 2007 and has grown into an Australian solar industry icon with its products sold across 30 countries. Our ongoing research and development is backed by a culture of open innovation, excellence through quality and being service focused.

We develop for optimal functionality, with an emphasis on simplicity for aesthetically brilliant projects. Our technically advanced solar mounting gear is complemented by unique kliplok clamps and accessories, as well as our unparalleled logistics & operations team, with an emphasis on customer service.

Clenergy is a veteran manufacturer with startup roots in Melbourne, Australia, we have earned a solid reputation throughout the nation and across APAC, because of a proven track record of success.

We bring our expertise to the table to provide your company and engineers with creative insights and attention to detail.



List of contents

About PVezRack®	01
Milestones	02
SolarRoof™	03 - 04
SolarRoof™ Aeri	05 - 06
SolarTripod Light	07 - 08
Ascent	09 - 10
Ascent Wings	11 - 12
ezShade Pergola	13 - 14
SolarTerrace I	15 - 16
SolarTerrace MAC	17 - 18
SolarTerrace Eco	19 - 20
ezShade 2.0	21 - 22
SolarFloating Pro	23 - 24
EzTracker D Series	25 - 26
EzTracker D2P Pro	27 - 28
Global Projects	29 - 32

Key Facts

Market Value

Founded in 2007
 Public listed on the Shanghai Stock Exchange in 2017
 Strategic investment by China famous state-owned enterprises

Industry Leader

12GW of worldwide installations
Top 5 Solar Tracker Supplier in China
 Largest share of the rooftop solar PV market in AU for 12 years
 13 billion+ kWh green power generation capacity annually

Core Business

Global offering of solar products
 Solar PV + Smart Energy Solution
610,000+ rooftop solar projects
10,000+ solar plants

Milestones



2021-Current New Heights

Clenergy enters the building industry with cable management solutions, and launches the RUNNUR brand.

Clenergy sealed a strategic partnership with Xiamen C&D Inc. and Xiamen Lide Group.

Launched country-wide distributed rooftop pilot program across Xiang'an district backed by the National Energy Administration.

Clenergy rebrands to reflect our new vision and mission.



2011-2015 Global Expansion - Diversified Development

Added a Tianjin manufacturing base.

New Official Subsidiaries – Australia, US, Japan, Thailand and the Philippines.

Business Model – Global Market + Local Service + Global Supply Chain.



2007-2008 Startup - Foundation

Founded Manufacturing in Xiamen, China. Developed the Australian market. Great Industry brand awareness.

2016-2020 Public Listing

IPO application approved by the CSRC in 2016.

Successfully listed in the Shanghai Stock Exchange in 2017.

Doubled the sales volume in 2018, reaching 1.7GW.

Cooperated with Obton and Hunan Xinhua on 65MW and 77.1MW solar project respectively in 2019.

Pipeline of more projects across Asia, Japan, Germany & Australia.

Annual shipments reached 2GW in 2020; Bagged 293MW order in Shihezi, Xinjiang, making it the largest solar tracker project within China in 2020.



2009-2010 Turning Pointing

Successfully developed the "PV-ezRack" series.

Lead to Australia's No.1 Solar Mounting Equipment supplier.



SolarRoof™

PV-ezRack® SolarRoof™ is a universal solution designed for PV-module installation on tin roof. Thanks to our Interfaces, Rails and Clamps with unique sectional property, PV-ezRack® SolarRoof™ System could offer robust structure and long lifecycle. Available with penetrative and non-penetrative solution on a large variety of roof types.

Main Benefits

Quick and Easy Installation

Innovative and internationally patented, the Z-Module technology is used in almost all SolarRoof™ components. The Z-Module provides a quick, easy and safe installation method. It can be inserted in to the rail at any given point, and secured with just three hand grips.

Wide Range of Tilting

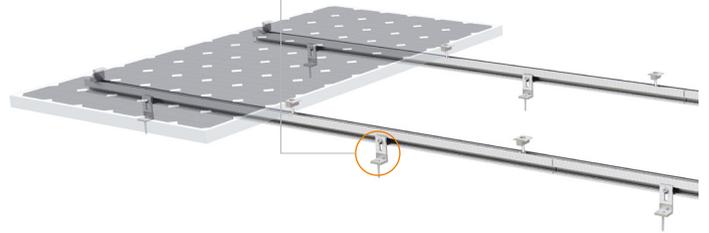
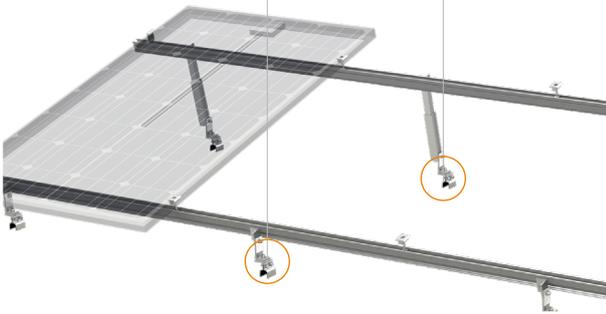
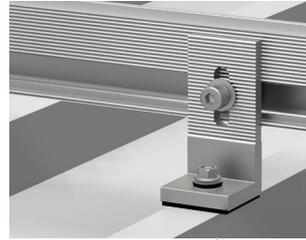
With three adjustable tilt legs, these parts can tilt panels from between 10-60 degrees. Through its innovative design, the tilt legs can cope with all common purlin distances.

Universal

SolarRoof™ has suitable mid and end clamps for every size of solar panel including frameless, thin film panels or special clamps for cyclonic regions. In the growing range of clamps, cable clips, adapters and accessories you're sure to find the parts you require for your residential rooftop mounting needs.

Technical Details

Module Orientation	Landscape or Portrait
Wind Load	Customized
Roof Type	Tin Roof
Tilt Angle	0°/10~15°/15~30°/30~60°
Material	Main Structure: AL6005-T5 / Fasteners: SUS 304
Certification	TUV, CE
Standard	ASCE 7-10 AS NZS 1170.2-2011 EN 1991 JISC 8955-2017
Warranty	12 years



				
<p>ER-EC-ST End Clamp</p>	<p>ER-IC-ST Inter Clamp</p>	<p>ER-R-ECO ECO Rail</p>	<p>ER-SP-ECO Splice for ECO Rail</p>	<p>I-05/6.3/85/C Tin Interface with Carbon Steel Sheet Metal Screw 6.3x85 (metal purlin)</p>
 <p>ER-I-32/45/M8 Klip-lok Interface 406 with U-opening</p>	 <p>TL-10/15/L/PS TL-15/30/L/PS Adjustable Tilt Legs with L-feet</p>			

SolarRoof™ Aeri Rail Solution

PV-ezRack® SolarRoof™ Aeri Rail Solution is a universal solution designed for PV-module installation on tin roof. Thanks to our Interfaces, Rails and Clamps with unique sectional property, PV-ezRack® SolarRoof™ Aeri Rail Solution could offer robust structure and long lifecycle. Available with penetrative and non-penetrative solution on a large variety of roof types.

Main Benefits

Quick and Easy Installation

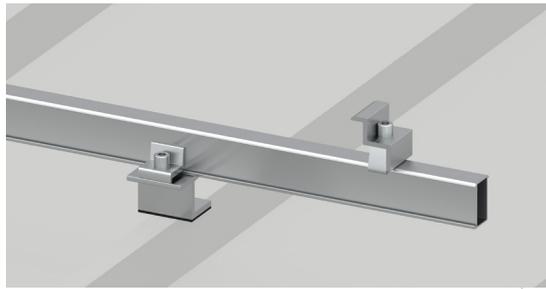
Innovative Aeri Omega Mouldle is used in this solution. It provide easy and safe installation method. And can be clicked into the rail at any given point, and secured with just two or three hand grips.

Versatility

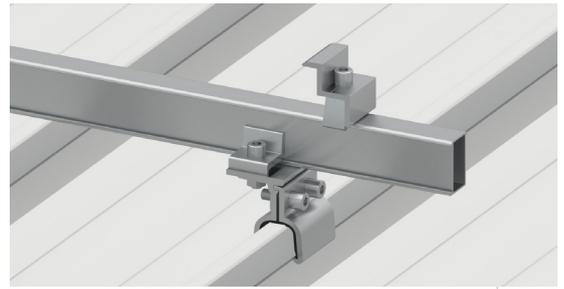
With various types of Interfaces and non-penetrative clamps, PV-ezRack® SolarRoof™ Aeri Rail Solution could be compatible with common tin roofs and PV-modules over the market. In the growing range of clamps, cable clips, adapters and accessories you are sure to find the parts you require for your rooftop mounting needs.

Technical Details

Module Orientation	Landscape or Portrait
Wind Load	Customized
Roof Type	Tin Roof
Tilt Angle	0°, parallel to roof surface
Material	Main Structure: AL6005-T5 / Fasteners: SUS 304
Standard	ASCE 7-10 AS NZS 1170.2-2011 EN 1991 JISC 8955-2017
Warranty	12 Years



Penetrative



Non-penetrative



				
<p>ER-R-AE/XXXX Aeri Rail</p>	<p>ER-SP-AE Splice for Aeri Rail</p>	<p>ER-RC-AE Rail Clamp for Aeri Rail</p>	<p>ER-IC-AE Inter Clamp</p>	<p>ER-EC-AE End Clamp</p>
				
<p>ER-I-05/DU Dual Tin Interface</p>	<p>ER-I-31/SH Klip-lok Interface 400-700HS</p>	<p>ER-I-32/SH Klip-lok Interface 406</p>	<p>ER-I-43 Klip-lok Interface for Angularity 25</p>	<p>ER-I-44 Klip-lok Interface for standing seam 8</p>
				
<p>ER-I-45 Klip-lok Interface for standing seam 20</p>	<p>ER-I-46 Klip-lok Interface for Angularity 18</p>	<p>ER-I-47/SH Klip-lok Interface for Angularity 18</p>		

Ascent

The PV-ezRack® Ascent is a low ballast, south/north facing solution without rails for PV installation on flat roofs. With the special design and a tilt angle of 10° and 15°, PV-ezRack® Ascent will be suitable for PV module up to 2180x1100mm, height from 30mm to 46mm.

Main Benefits

Ballast Optimized

Ballast reduction through aerodynamic optimized construction. Also tested in boundary layer wind tunnel by the independent wind tunnel test agency, to achieve optimum ventilation for maximum energy output.

Efficiency

With the click connections between Legs and Bases, no tools are used during the Legs and Bases assembly. The storage space is greatly reduced due to the innovative Rear Leg Extension, thereby saving the cost of warehouse management.

Compatibility

Available with a module length up to 2180mm, widths up to 1100mm, PV-ezRack® Ascent offers flexible solutions and suitable for all framed PV panels with height from 30 to 46mm. Power optimizer, micro inverter can be easily accommodated.

Technical Details

Application	Flat roof
Setting Angle	10°/15°
Module Orientation	South/North: Landscape
Module Size	Width: 990-1100 mm Length: 1640-2180 mm Height: 30-46 mm
Snow Load	Customized
Wind Load	Customized
Material	Main Components: AL6005-T5 Wind Deflector: AL5052-H32 Fasteners: HDGS
Certification	TUV, CE
Standard	Eurocode 0-9 AS NZS1170.2-2011 JISC8955 ASCE 7-10
Warranty	12 years



FL-AC/10 FL-AC/15
Front Leg 10°/15°



RL-AC/10
Rear Leg 10°



RLE-AC
Rear Leg Extension



WD-AC
Wind Deflector

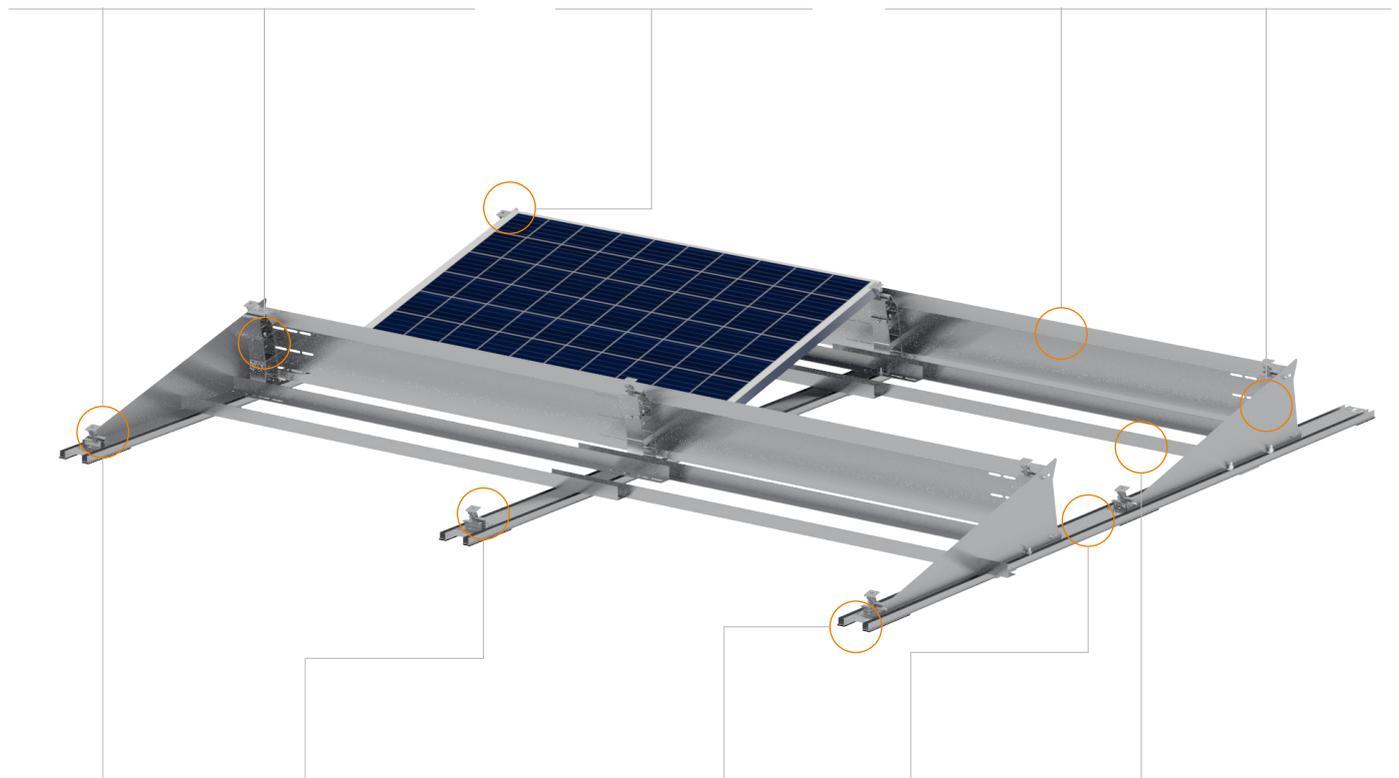


SWD-AC
Side Wind Deflector

Click in installation, manufactured from aluminum offer excellent corrosion resistance.

Rear Leg Extension can be easily attached with Rear Leg 10° with a single screw, to achieve 15°.

The wind deflector is fixed to the legs, normally installed on the end or side of array for deflecting wind and guaranteeing system stability.



EC-M
End Clamp



IC-M
Inter Clamp



SEB-AC/120
Start and End Base L120



MB-AC/SN
Main Base, South-north



ER-AA-50/XXXX/50
Angle AL

The PV-ezRack® Inter and End clamps offer a simple, easy to use and robust fixing of the PV panels.

With pre-fitted rubber pad. The Base is not attached to the roof surface to allow for water drainage.

With a simple and robust design, this component efficiently fixes the ballast to the mounting structure.

Ascent Wings

The Clenergy PV-ezRack® Ascent Wings is a low ballast and rail-less system which provides optimal surface utilization and yield for structurally challenging roof with limited ballast options. The PV modules will be installed in landscape and can maximize energy production with multiple geometry options. Also with the special design and a tilt angle of 10° and 15°, our new PV-ezRack® Ascent Wings will be suitable for PV module up to 2180x1100mm, height from 30mm to 46mm.

Main Benefits

Ballast Optimized

Ballast reduction through aerodynamic optimized construction. Also tested in boundary layer wind tunnel by the independent wind tunnel test agency, to achieve optimum ventilation for maximum energy output.

Efficiency

With the click connections between Legs and Bases, no tools are used during the Legs and Bases assembly.

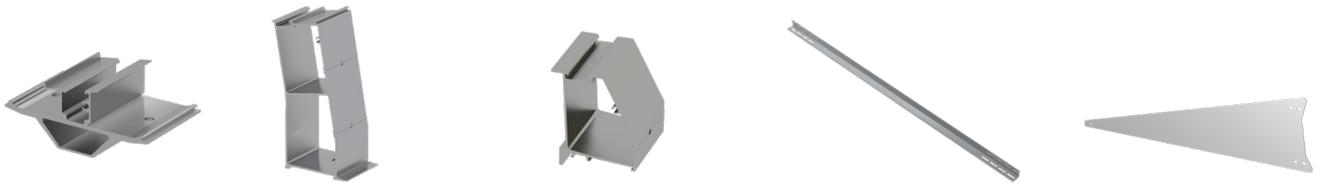
The storage space is greatly reduced due to the innovative Rear Leg Extension, thereby saving the cost of warehouse management.

Compatibility

Available with a module length up to 2180mm, widths up to 1100mm, PV-ezRack® Ascent Wings offers flexible solutions and suitable for all framed PV panels with height from 30 to 46mm. Power optimizer, micro inverter can be easily accommodated.

Technical Details

Application	Flat roof
Setting Angle	10°/15°
Module Orientation	South/North: Landscape
Module Size	Width: 990-1100 mm Length: 1640-2180 mm Height: 30-46 mm
Snow Load	Customized
Wind Load	Customized
Material	Main Components: AL6005-T5 Wind Deflector: AL5052-H32 Fasteners: SUS 304
Certification	TUV, CE
Standard	Eurocode 0-9 AS NZS 1170.2-2011 JISC 8955 ASCE 7-10
Warranty	12 years



FL-AC/10 FL-AC/15
Front Leg 10°/15°

RL-AC/10
Rear Leg 10°

RLE-AC
Rear Leg Extension

ER-AA-50/XXXX/50
Angle AL

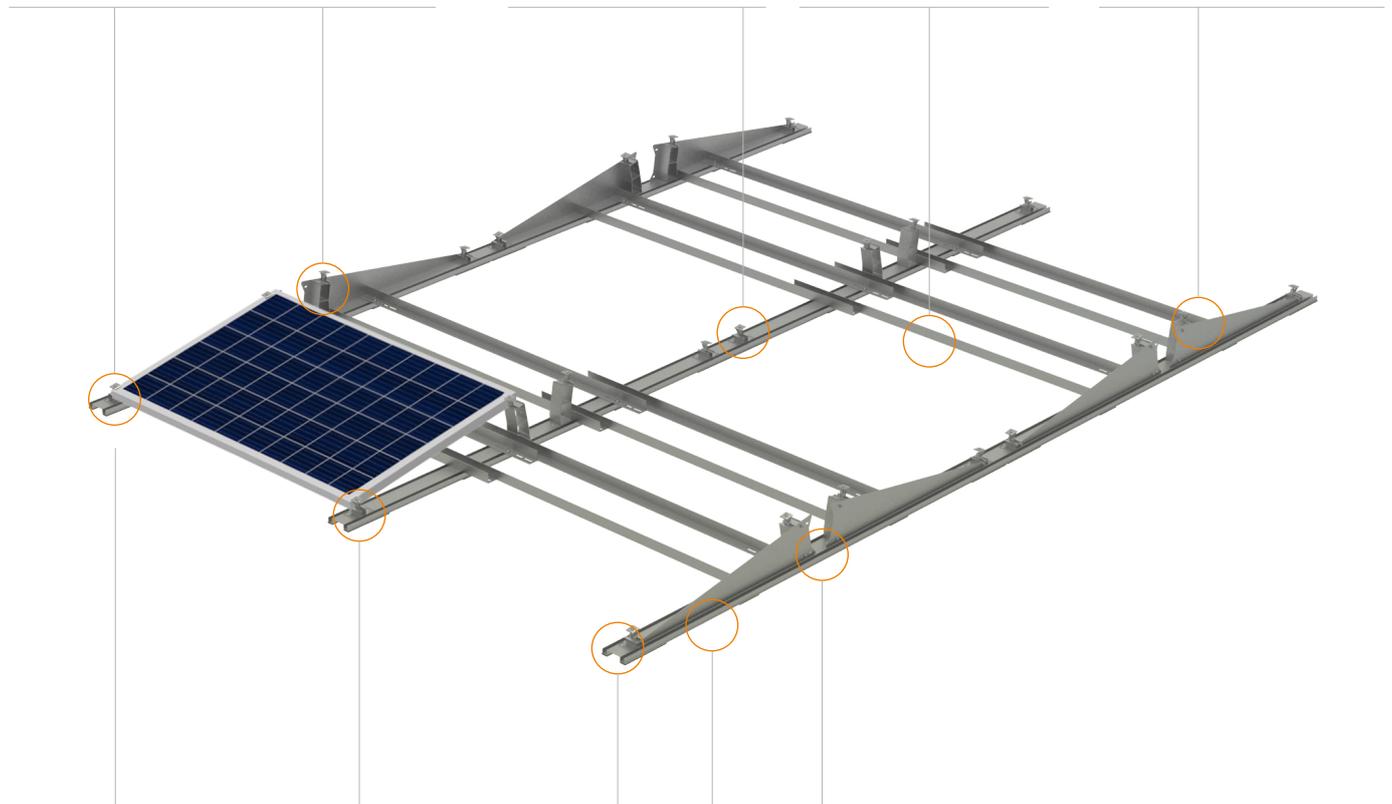
SWD-AC
Side Wind Deflector

Click in installation, manufactured from aluminum offer excellent corrosion resistance.

Rear Leg Extension can be easily attached with Rear Leg 10° with a single screw, to achieve 15°.

With a simple and robust design, this component efficiently fixes the ballast to the mounting structure.

The wind deflector is fixed to the legs, normally installed on the side of array for deflecting wind and guaranteeing system stability.



EC-M
End Clamp

IC-M
Inter Clamp

SEB-AC/120
Start and End Base L120

MB-AC/SN
Main Base, South-north

CB-AC/EW
Connection Base, East-west

The PV-ezRack® Inter and End clamps offer a simple, easy to use and robust fixing of the PV panels.

With pre-fitted rubber pad. The Base is not attached to the roof surface to allow for water drainage.

ezShade Pergola

Manufactured from high quality structural grade and aluminium, PV-ezRack® ezShade Pergola is the perfect mounting solution for Residential concrete roofs. With the exquisite structure design, the waterproof function is available without using a large number of EPDM rubbers. All installations are carried out under the PV panels, which effectively improves installation efficiency while ensuring safety.

Main Benefits

Safety

High safety performance and easy installation due to innovative clamp which can help fasten PV panels from bottom, avoiding the danger of cracking and preventing workers from falling.

Waterproof

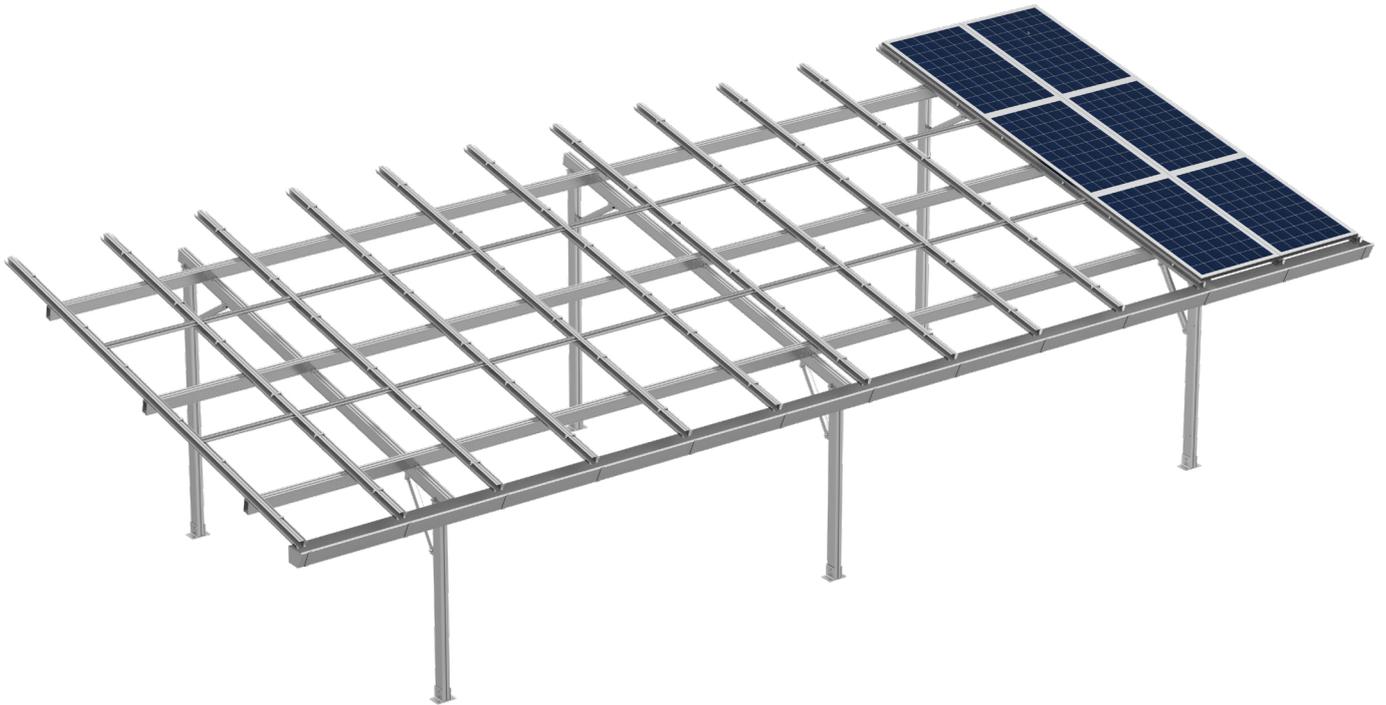
With the special water guide rails and Gutters install under the gap of PV modules, the system can have reliable waterproof function. Water will flow along the gap into the Gutters and water guide rails, finally into the ground.

Excellent Corrosion Resistance

Manufactured from high quality aluminum and stainless steel with excellent corrosion resistance, PV-ezRack® ezShade Pergola offers a reliable and durable solution.

Technical Details

Module Orientation	Landscape or Portrait
Wind Load	Customized
Tilt Angle	0-60°
Foundation	Concrete and Chemical Anchor
Wind Load	0.6KN/m ² or customized
Material	Main Structure: AL6005-T5 Fasteners: SUS 304
Standard	GB 50009-2012 GB 50797-2012 GB 50352-2019 AS NZS 1170 JIS C 8955
Warranty	12 years



				
<p>MC-SDP Module Clamp</p>	<p>AC-SDP Arcuated Clamp</p>	<p>R-SDP/70 Rail 70</p>	<p>GU-SDP Gutter</p>	<p>RT-T-120 Rectangular Tube</p>
				
<p>BA-SDP/130 T Base 130</p>	<p>TJ-SDP/130 T Joint L130</p>	<p>G-SDP/120 Girder</p>		

SolarTerrace I

PV-ezRack® SolarTerrace I is an economic ground-mounting system suitable for commercial and utility scale PV installations. Manufactured from traditional hot dip galvanized steel with an average coating thickness of 65 microns (ASTM A123 standard) ensures a robust, reliable and economic system.

Main Benefits

Fast and Simple Installation

Simple and efficient design reduces materials usage and cost while guaranteeing system strength and durability.

Price Advantage

Efficient design and the use of galvanized steel enable significant price savings compared to other products.

Durable in Harsh Environments

Thanks to the use of hot dip galvanized steel, the ground mount system is highly anticorrosive which makes it suitable for even the toughest environments.

Strong Compatibility

As a universal installation system, the PV-ezRack® SolarTerrace I is compatible with most frame-based modules on the market and is suitable for all foundations (Ramming, Concrete, Ground Screw).

Strict Quality Control

Clenergy conducts strict quality management and control from raw materials to finished products in order to guarantee structural and the service life of its manufactured systems.

Technical Details

Module Orientation	Landscape or Portrait
Wind Load	Customized
Tilt Angle	Customized
Foundation	Ramming Ground Screw Concrete
Material	Main Structure: Galvanized Steel / Fasteners: HDGS
Standard	AS NZS 1170.2-2011 EURCODE 0-9 JISC 8955-2017 ASCE 7-10
Warranty	12 years



				
<p>ER-EC-N End Clamp, Nut series</p>	<p>ER-IC-N Inter Clamp, Nut series</p>	<p>ER-R-C80/40 C Steel 80*40</p>	<p>P-C80/40 Post for C Steel 80*40</p>	<p>AS-40/40 Angle Steel 40*40</p>
				
<p>GS-76/3.5/16-F1 Ground Screw with Flange</p>	<p>B-100/63/200 L Base 100*63*200</p>	<p>SP-C80/40 Splice for C Steel</p>	<p>TR-12/3310 Tie Rod</p>	<p>CO-TR/63/60 Tie Rod Connector</p>

SolarTerrace MAC

PV-ezRack® SolarTerrace MAC is an economic ground-mounting system suitable for commercial and utility scale PV installations. Manufactured from the latest magnesium aluminum zinc coating steel with excellent corrosion resistance and elegant surface.

Main Benefits

Excellent Corrosion Resistance

Manufactured from Magnesium Aluminum Zinc coating steel, which is 10 to 20 times stronger corrosion resistance than that of normal hot-dip galvanized steel.

Elegant Surface

This system has elegant surface without the problems of surface quality, such as uneven zinc coating, uncoated areas or zinc slag.

Self-healing

The cut surface forms a dense protective film with low conductivity, which has an inhibitory effect on the corrosion of the cut surface and has excellent self-healing effect.

Three Foundations Available

Concrete foundation, ground screw or ramming post solution available.

Technical Details

Module Orientation	Landscape or Portrait
Wind Load	Customized
Tilt Angle	Customized
Foundation	Concrete Ground Screw Ramming
Material	Main Structure: Zn-Mg-Al Coating Steel / Fasteners: SUS304
Standard	AS NZS 1170.2-2011 EURCODE 0-9 JISC 8955-2017 ASCE 7-10
Warranty	12 years



				
<p>ER-TR-P Tie Rod</p>	<p>ER-IC-N/U18 Inter Clamp with Nuts</p>	<p>ER-EC-N End Clamp with Nuts</p>	<p>R-C80/40-P Rail & Girder & Leg</p>	<p>R-C60/40-P Support</p>

SolarTerrace Eco

Clenergy PV-ezRack® SolarTerrace Eco (ST Eco) is a highly pre-assembled ground mounting system, suitable for commercial PV installation and utility-scale PV installation. Innovative M module channel rails are very convenient and helpful to improve the installation accuracy. Using high quality components, ST Eco is more suitable for areas with higher salinity, and significantly saves labor time and cost, especially delivering large scale projects.

Main Benefits

Excellent Corrosion Resistance

Anodized aluminum and SUS304 stainless steel parts make the system suitable for even the toughest corrosive environments, such as coastal areas.

Easy and Fast Installation

The support legs of ST Eco are completely pre-assembled, they only need to be opened up and secured to the foundation. They even have the pre-installed positioning rail clamps , so you don't need measure and mark rail positions anymore. The combination of these features saves valuable time and cost in assembly and logistics.

Versatility

With modular design, such as A-shaped support, N-shaped support, W-shaped support, TM rail and TW rail, ST Eco can be compatible with different regions where the wind and snow load vary.

Technical Details

Module Orientation	Landscape or Portrait
Wind Load	Customized
Tilt Angle	Customized
Foundation	Ground Screw Concrete
Material	Main Structure: AL6005-T5 / Fasteners: SUS 304
Standard	AS NZS 1170.2-2011 EN 1991 JISC 8955-2017 ASCE 7-10
Warranty	12 years



 <p>S-STeco Support</p>	 <p>ER-RCII/W Rail Clamp II</p>	 <p>ICII-M Inter Clamp II</p>	 <p>EC-M/OM End Clamp</p>	 <p>GS-xx Ground Screw</p>
 <p>ER-R-TM TM Rail</p>	 <p>BR-STeco/EW (optional) East/West Adjustable Bracket</p>	 <p>ER-AA-50 Angle AL</p>		

ezShade 2.0

PV-ezRack® ezShade 2.0 is a solar parking solution providing solar panels support as well as car sheltering for residential and commercial projects. The high quality aluminum components and stainless steel fasteners ensure a robust and reliable system. With the exquisite structure design, the waterproof function is available without using a large number of EPDM rubbers. Both silver anodized and black anodized options are available.

Main Benefits

Easy Installation

Thanks to innovative structural design, the system can be installed with less steps in a short time.

Waterproof

With the new structural design, the PV-ezRack® ezShade 2.0 is totally waterproof after real testing in rainy day.

Excellent Corrosion Resistance

Manufactured from high quality anodized aluminum and stainless steel with excellent corrosion resistance, PV-ezRack® ezShade 2.0 offers reliable and durable solution.

Customized Solution Available

PV-ezRack® ezShade 2.0 is suitable for projects of small parking and large-scale parking lots, which is developed to cater for customer requirements. We can offer N-Shape or W-Shape supports. Both silver anodized and black anodized products are available.

Technical Details

Module Orientation	Landscape or Portrait
Wind Load	Customized
Tilt Angle	5 ° or 10 °
Foundation	Concrete
Material	Main Structure: AL6005-T5 / Fasteners: SUS 304
Standard	AS NZS 1170.2-2011 EN 1991 JISC 8955-2017 ASCE 7-10
Warranty	12 years



				
<p>EC-W End Clamp</p>	<p>ICII-W Inter Clamp II</p>	<p>HJ-SDII/158/130 H Joint 130</p>	<p>SP-SDII/R/168 Splice for Rail 168</p>	<p>R-SDII/168 Rail 168</p>
				
<p>G-SDII/150 Girder 150</p>	<p>GU-SDII/22 Gutter 22</p>	<p>BA-SDII/200 Corrugated T-Base 200</p>	<p>BA-SDII/280 Corrugated T-Base 280</p>	<p>RT-100/90 Rectangular Tube 100*90</p>

SolarFloating Pro

PV-ezRack® SolarFloating Pro is a water-based floating system supporting solar panels, suitable for numerous applications like lakes, ponds, pollution treatment plants, etc.

Thanks to the special design, the system features great cooling performance and can reduce the water surface shielding rate by 40% and increase the energy output by 3%. The combination of high-quality Zn-Mg-Al coating steel supports and HDPE floaters ensures a robust and durable solution.

Main Benefits

Maximum Energy Output

The area underneath the PV module is open without interfering with the reflected light in the rear, which maximizes energy efficiency.

Excellent Compatibility

The system is compatible with both framed and frameless PV modules, and the tilt angle can be adjusted, providing the optimum solution for different regions.

Excellent Wind Resistance

With the special design of a netlike supporting base, the system is stable and robust. Furthermore, the wind can easily spread from the top of the system.

Easy Maintenance

Thanks to the simple design using C-steel and U-steel, it is easy to transport and maintenance.

Technical Details

Module Orientation	Landscape or Portrait
Wind Load	Customized
Tilt Angle	Customized
Material	Support: Zn-Mg-Al Coating Steel Floater: HDPE Fasteners: HDGS or SUS304
Standard	AS NZS 1170.2-2011 EN 1991 JISC 8955-2017 ASCE 7-10
Warranty	12 years



		
<p>ER-R-U U-Steel</p>	<p>ER-R-C C-Steel</p>	<p>ER-SFP-F HDPE Floater</p>

D1P One Portrait Horizontal Single-axis Tracker



Advantages

- Ground Tilt Angle Up to 20%
- Wind Tunnel Test Certified
- Agrivoltaics Opportunities

Power Generation Increased

15-30%

Compared to a Standard Fixed Tilt System

Features

Clenergy presents an adaptable, cost-effective solar tracker ideal for commercial or utility scale PV projects.

- Terrain adaptability – allows for ground tilt from 10% to 20%
- Customisable foundation variations
- Modular design – easier maintenance
- Increased stability



IEC 62817



Wind Tunnel Test

Technical Details

PV-Modules	
PV-Modules supported	Compatible with modules up to 600W or 210 cells
Structure	
Type	Horizontal single-axis tracker
Maximum capacity per row	45.78kWp (Estimated with 545W PV-Modules)
PV-Modules quantity per row	90 PCS (1x90)
Tracking range	±60°(120°)
Tracking accuracy	≤2°
Structural materials	HDG steel, Al-Mg-Zn coating steel
Foundation	Steel pile, PHC pile, Concrete foundation
Quantity of foundation/MW	Normally about 250 PCS/ MW (Estimated with 545W PV-Modules)
Electrical	
Motor type	24V DC Motor
Motor quantity	1 motor per row
Drive method	Slewing drive
Solar tracking method	Astronomical algorithm + closed-loop control
Control system	MCU
Data feed	Modbus over RS485
Signal transmission	Wire or wireless (Zigbee)
Backtracking	Yes
Manual operation	Yes
Power supply	Self-powered or grid-powered
Commission	By mobile phone App
1000V System or 1500V System	Both available
Protection Function	
Night stow mode	Yes
Overheat prevention	Yes
Troubleshooting available	Yes (Driving abnormally > Self-diagnostics)
Environment	
Wind load	Customisable according to local condition
Operating temperature	-30°C to +60°C
Civil and Installation	
Slope tolerance	Up to 20%
Special tools	Not required
Other	
System design standard	GBT 29320-2012
Load design standard	GB 50009, ASCE 7-05, ASCE 7-10 (According to project)



TUV Certification



WACKER Wind Tunnel Test

D2P Horizontal Single-axis Tracker



Advantages

- Ideal for Bifacial Panels
- Wider Aisles for Reflecting Surfaces
- Reduced Shadow Projections

Features

We have raised the array to achieve higher ground clearance. The motor, electronics & cabling location was designed to be where there is the least water accessibility.

- Ideal for agrivoltaics
- 2 x rows of modules
- Higher stability
- Lower number of piles

Power Generation Increased
Up to 30%
 2 x Portrait Layout with Bifacial PV-
 Modules Compared to Fixed Tilt System



IEC 62817



Wind Tunnel Test

Technical Details

PV-Modules	
PV-Modules supported	Compatible with modules up to 600W or 210 cells
Structure	
Type	Horizontal single-axis tracker
Maximum capacity per row	45.78kWp (Estimated with 545W PV-Modules)
PV-Modules quantity per row	2x45
Tracking range	±60°(120°)
Tracking accuracy	≤2°
Structural materials	HDG steel, Al-Mg-Zn coating steel
Foundation	Steel pile, PHC pile, Concrete foundation
Quantity of foundation/MW	Normally about 196 PCS/ MW (Estimated with 545W PV-Modules)
Electrical	
Motor type	24V DC Motor
Motor quantity	1 motor per row
Drive method	Slewing drive
Solar tracking method	Astronomical algorithm + closed-loop control
Control system	MCU
Data feed	Modbus over RS485
Signal transmission	Wire or wireless (Zigbee)
Backtracking	Yes
Manual operation	Yes
Power supply	Self-powered or grid-powered
Commission	By mobile phone App
1000V System or 1500V System	Both available
Protection Function	
Night stow mode	Yes
Overheat prevention	Yes
Troubleshooting available	Yes (Driving abnormally > Self-diagnostics)
Environment	
Wind load	Customisable according to local condition
Operating temperature	-30°C to +60°C
Civil and Installation	
Slope tolerance	Up to 20%
Special tools	Not required
Other	
System design standard	GBT 29320-2012, IEC 62817
Load design standard	GB 50009, ASCE 7-05, ASCE 7-10 (According to project)



TUV Certification



RWDI Wind Tunnel Test

D2P Pro Horizontal Single-axis Tracker



Advantages

- Multi-drive System for Maximum Aeroelastic Stability
- Advanced Smart Control
- Flexible Layout for Irregular Terrains

Power Generation Increased
Up to 30%
 Newest Generation 2 x Portrait Smart Solar Tracking System

Features

The innovative model is characterized by its high system stability throughout the life of the solution, maximizing the energy output for solar plants. This system can be flexibly used for sites with challenging soils and delivers a perfect solution for Agrivoltaics and Fisheryvoltaics projects.

- Higher power density - supports up to 120 modules with 4x1,500V-strings
- Lower construction costs - requires 135 posts per MW
- Bifacial compatibility - secures the maximum power generation potentially up to 30% more



IEC 62817



Wind Tunnel Test

Technical Details

PV-Modules	
PV-Modules supported	Compatible with modules up to 600W or 210 cells
Structure	
Type	Horizontal single-axis, independent row
Maximum capacity per row	65kWp (Estimated with 545W PV-Modules)
PV-Modules quantity per row	Up to 120 modules, depending on module string length
Bifacial features	Available with optimized central torque tube gap
PV-Modules configuration	2 in portrait 4 x 1,500 strings per standard tracker
PV-Modules attachment	Self-grounding and electrical tool-actuated
Tracking range	±60°(120°)
Tracking accuracy	≤2°
Ground coverage ratio (GCR)	30% to 50%
Structural materials	HDG steel
Foundation	Steel pile, PHC pile, Concrete foundation
Quantity of foundation/ MW	Normally about 135 PCS/MW (Standard W8 section foundation posts)
Electrical	
Motor type	24V DC Motor
Drive method	Patented multi-drive
Solar tracking method	Astronomical algorithm + closed-loop control integrated AI control tracking algorithm
Signal transmission	Wire (RS485) or wireless (Zigbee)
Backtracking	Yes
Power supply	Option1: Array powered, integrated backup battery Option2: AC powered, customer-provided AC circuit
Protection Function	
Night stow mode	Yes
Wind protection	Intelligent wind stowing with self-locking Multi-drive system for maximum array stability in all wind conditions
Environment	
Wind load	Configurable up to 190 kph
Operating temperature	Array powered: -20°C to +60°C AC powered: -30°C to +60°C
Civil and Installation	
Slope tolerance	North-south up to 20%, East-west with no limits
Special tools	Not required
Other	
Onsite training & commissioning	Yes
Codes and standards	UL 3703 UL 2703 IEC 62817
Warranty	10 years for main structure 5 years for drive and control components



TUV Certification



RWDI Wind Tunnel Test



SolarRoof™

China

100MW



SolarRoof™

China

36MW



SolarRoof™

Australia

1.2MW



SolarRoof™

Philippines

4.77MW



Trapezoidal

UK

3.8MW



SolarRoof™

Thailand

3.3MW



SolarTerrace I

Vietnam
138MW



SolarTerrace I

Vietnam
100MW



SolarTerrace Eco

Vietnam
80MW



SolarTerrace Eco

Cambodia
39MW



SolarTerrace V

Japan
52MW



SolarTerrace II-A

Japan
51MW



A wide-angle photograph of a large-scale solar farm in the Philippines. The solar panels are arranged in long, parallel rows across a flat, open landscape under a clear blue sky. A small Philippine flag icon is in the top right corner of the image area.

SolarTerrace I Philippines
60MW



A photograph of a solar farm in the Philippines, showing rows of solar panels extending into the distance. The terrain is flat and open. A small Philippine flag icon is in the top right corner of the image area.

SolarTerrace I Philippines
20MW



A close-up photograph of the SolarTerrace II-A mounting system in the US. It shows the metal structure supporting the solar panels, with a clear view of the ground and the sky. A small US flag icon is in the top right corner of the image area.

SolarTerrace II-A US
38.7MW



A photograph of a solar farm in South Korea during construction. The solar panels are partially installed on the metal frames. In the foreground, there are stacks of materials wrapped in plastic. A small South Korean flag icon is in the top right corner of the image area.

SolarTerrace Eco South Korea
9MW



A photograph of a solar farm in Thailand, showing the solar panels mounted on a metal structure. The background features green hills and a blue sky with some clouds. A small Thai flag icon is in the top right corner of the image area.

SolarTerrace I Thailand
8MW



A photograph of a solar farm in Thailand, showing a long row of solar panels. The background shows a landscape with green hills and a blue sky with clouds. A small Thai flag icon is in the top right corner of the image area.

SolarTerrace I Thailand
8MW



SolarTerrace I

China

60MW



SolarTerrace I

China

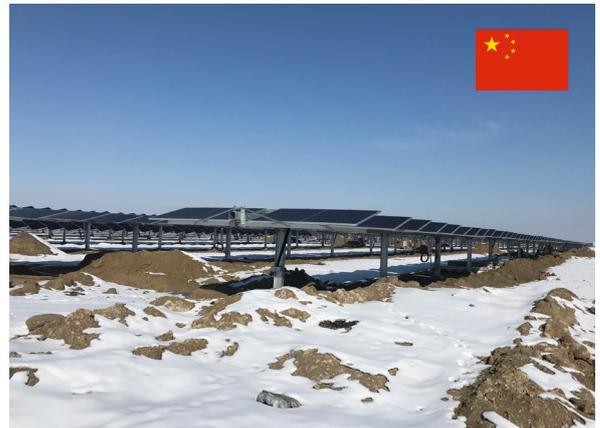
52MW



Customized Solution

China

50MW



EzTracker

China

293MW



EzTracker

China

55MW



EzTracker

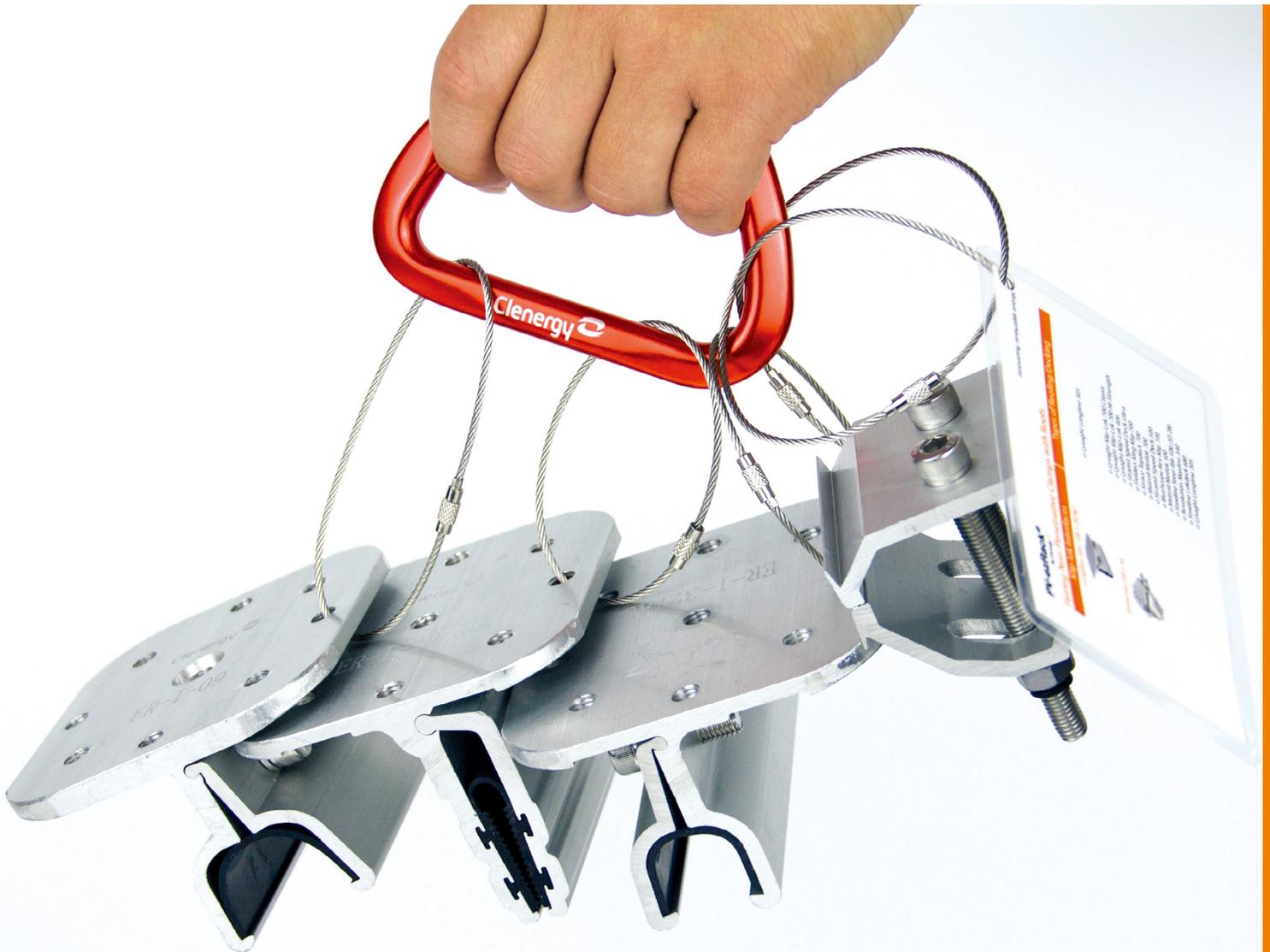
Vietnam

50MW

Merch Store



Merch Store



MERCHANDISING





PV-ezRACK®

Clenergy

999-1009 Min'an Rd,
Huoju Hi-tech Ind. Dev. Zone
Xiang'an District 361101, Xiamen,
Fujian, China

Phone: +86 592 311 0088
Email: sales@clenergy.com
Web: www.clenergy.com

 @ClenergyGlobal / @ClenergyClub / @ClenergyAUS / @ClenergyThailand

 @Clenergy_global  @Clenergy  @Clenergy  @ClenergyClub

A Clenergy Technologies Company

