



# Product Catalogue

Solar Mounting Solutions



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.

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## Key Facts

### Market Value

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

### Industry Leader

**25GW** of worldwide installations  
**Top 3** Solar Tracker Supplier in China  
Largest share of AU rooftop solar PV market for 15 years  
**13 billion+** kWh green power generation capacity annually

### Core Business

Global offering of solar products  
Solar PV + Smart Energy Solution  
**750,000+** rooftop solar projects  
**15,000+** 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.

Clenergy Xinjiang Subsidiary established. 2GW PV power generation demonstration base and 5GW ezTracker equipment manufacturing plant planned in Urumqi.



## 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 "PVezRack®" series.

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



# SolarRoof

PVezRack® SolarRoof™ Aeri Rail Solution has been developed for both residential and commercial PV installations on tin and tile roofs. Thanks to our Interfaces, Rails and Clamps with unique sectional property, PVezRack® 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

### Reduced installation period

The innovative Aeri Omega Module provides an easy and safe installation method, which can be clicked into the rail at any given point.

### Flexible layout

The talented Klip-lok design makes the same components could compatible with Portrait and Landscape layouts by simply rotating the rail clamp.

### Versatile application

PVezRack® SolarRoof Aeri Rail Solution could be used for all common tin and tile roof types with a full set Klip-lok family, roof hook and universal tin interface.

## Technical Details

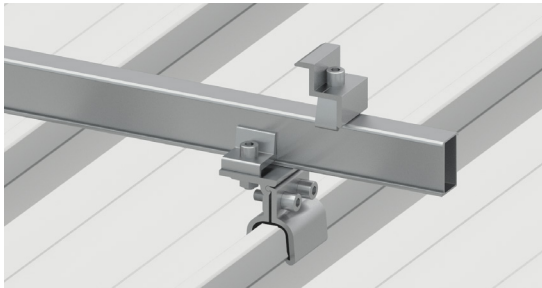
Module Orientation	Landscape or Portrait
Module Type	Framed   Frameless
Wind Load	Customised
Roof Type	Tin and Tile Roof
Tilt Angle	0°, parallel to roof surface
Material	Main Structure: AL6005-T5 Fasteners: SUS 304 Roof Hook: SUS 304
Standard	GB50797   AS NZS1170.2   EN1991   JISC8955   ASCE 7-10   SANS 10160
Warranty	12 Years

**12 Year  
Warranty**

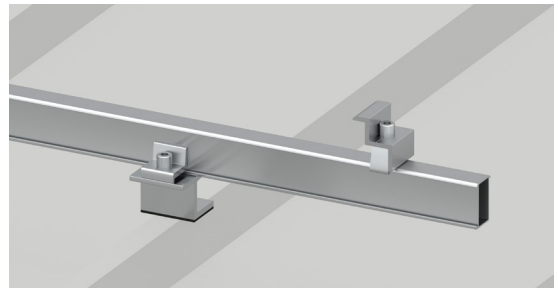
**Commercial**

**Residential**

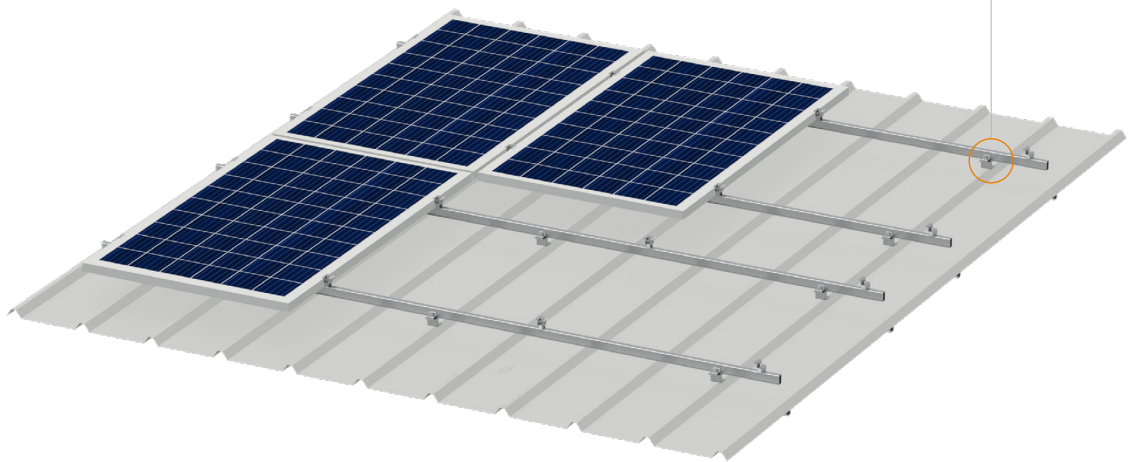
Tin Roof



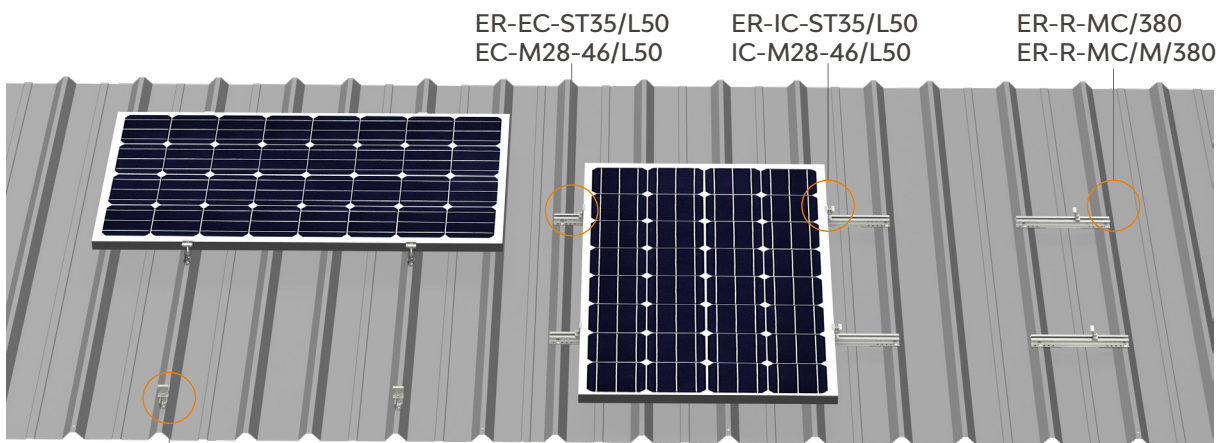
Non-penetrative



Penetrative



U support & Mycro rail



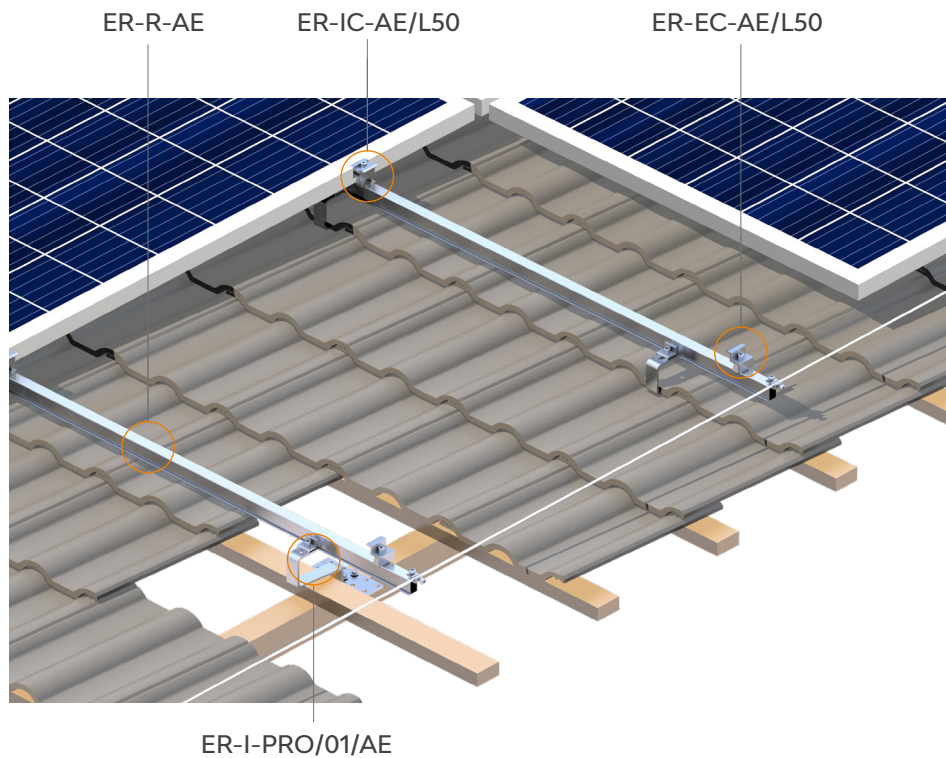
ER-EC-ST35/L50  
EC-M28-46/L50

ER-IC-ST35/L50  
IC-M28-46/L50

ER-R-MC/380  
ER-R-MC/M/380

ER-S-U/SS5/25  
ER-S-U/M/120

Tile Roof



**ER-R-AE/XXXX**  
Aeri Rail

- Aeri Rai



**ER-SP-AE**  
Splice for Aeri Rail

- Splice for Aeri Rail
- Self-drilling screw ST4.8\*16



**ER-IC-AE/L50**  
Inter Clamp

- Inter Clamp
- Washer 8
- Aeri Omega Mouldle
- Hexagon socket head cap screw M8\*30

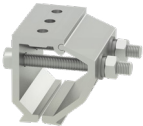
	<p><b>ER-EC-AE/L50</b> End Clamp</p>	<ul style="list-style-type: none"> <li>- Omega End Clamp 30&amp;35mm</li> <li>- Washer 8</li> <li>- Aeri Omega Module</li> <li>- Hexagon socket head cap screw M8*20</li> </ul>
	<p><b>ER-IC-ST/L50</b> Inter Clamp, Length 50 mm</p>	<ul style="list-style-type: none"> <li>- Inter clamp</li> <li>- Z Module</li> <li>- Washer 8</li> <li>- Hexagon socket head cap screw M8</li> </ul>
	<p><b>ER-EC-ST/L50</b> End Clamp 30&amp;35, Length 50 mm</p>	<ul style="list-style-type: none"> <li>- End clamp</li> <li>- Z Module</li> <li>- Washer 8</li> <li>- Hexagon socket head cap screw M8*28</li> </ul>
	<p><b>EC-M28-46/L50</b> End Clamp 28-46mm, with M module</p>	<ul style="list-style-type: none"> <li>- Universal Clamp, Length 50mm, Anodised</li> <li>- M Module 16.5*30.7mm</li> <li>- Corrugated L-anchor Plate 3</li> <li>- Button Head Torx Screws M8*35</li> <li>- Lock washer 8</li> <li>- Spring for Universal Clamp</li> </ul>
	<p><b>IC-M28-46/L50</b> Inter Clamp 28-46mm, with M module</p>	<ul style="list-style-type: none"> <li>- Universal Clamp, Length 50mm, Anodised</li> <li>- M Module 16.5*30.7mm</li> <li>- Button Head Torx Screws M8*35</li> <li>- Lock washer 8</li> <li>- Spring for Universal Clamp</li> </ul>
	<p><b>ER-RC-AE</b> Rail Clamp for Aeri Rail</p>	<ul style="list-style-type: none"> <li>- Rail Clamp for Aeri Rail</li> <li>- Washer 8</li> <li>- Hexagon socket head cap screw M8*25</li> <li>- Plain washer 8</li> <li>- Hexagon nut M8</li> </ul>
	<p><b>ER-RC-AE/05</b> Rail Clamp for Aeri Rail without nut</p>	<ul style="list-style-type: none"> <li>- Rail Clamp for Aeri Rail</li> <li>- Washer 8</li> <li>- Hexagon socket head cap screw M8*20</li> </ul>
	<p><b>ER-I-05/DU-6.3/70</b> Dual Tin Interface with Buildex Screw 6.3*70mm</p>	<ul style="list-style-type: none"> <li>- Dual Tin Interface</li> <li>- Rubber Pad 35*50*2</li> <li>- Buildex 14-11 x 70 Hex Head Zips Climaseal 5 with 16 mm Aluminium Bonded Washer</li> </ul>



**ER-I-PRO/01/AE**

Tile Interface for light to medium, with Rail Clamp for Aeri Rail

- Main Part of Roof Hook Pro H132
- Rail Clamp for Aeri Rail
- Buildex 14-11 x 70 Hex Head Zips Climaseal 5 with 16 mm Aluminium Bonded Washer
- Hexagon socket head cap screw M8\*25
- Hexagon nut M8
- Nut fixed
- Washer 8



**ER-I-34**

Brooklyn Klip-lok Clamp

- Main Hook of Brooklyn Klip-lok Clamp
- Side Hook of Brooklyn Klip-lok Clamp
- Plain washer 8
- Hexagon socket head cap screw M8\*25
- Hex Nut GB/T 6170-M8-8-tZn
- O rubber rings  $\phi 10 \times 1.9$
- Washer 8
- Hexagon socket head cap screw M8\*80



**ER-I-31-SH**

Klip-lok Interface 400-700HS, L50\*45

- Main Hook for klip-lok interface 400-700HS, L50\*45, with slot hole
- Side Hook for klip-lok interface 400-700HS, L50
- Rubber Pad 65\*50\*2
- Hexagon socket head cap screw M8\*25
- Washer 8



**ER-I-43**

Klip-lok Interface for Angularity 25

- Main Hook for Aeri klip-lok interface for Angularity 25
- Side Hook for Aeri klip-lok interface for Angularity 25
- Hexagon socket head cap screw M8\*25
- Plain washer 8
- Washer 8
- Hexagon nut M8



**ER-I-44**

Klip-lok Interface for standing seam 8

- Main Hook for Aeri klip-lok interface for standing seam 8
- Side Hook for Aeri klip-lok interface for standing seam 8
- Hexagon nut M8
- Hexagon socket head cap screw M8\*25
- Washer 8
- Plain washer 8

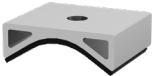









**ER-HB-MP/8/150/AE**  
**ER-HB-WP/10/200/AE**

Hanger Bolt for metal purlin, M8x150, M10x200 with mounting plate for Aeri Rail

- Hanger Bolt for metal purlin M8\*150/ M10\*200
- Waterproof Gasket for Hanger bolt M8
- Hexagon nut with flange M8
- Mounting Plate T6\*116
- Rail Clamp for Aeri Rail
- Washer 8
- Hexagon socket head cap screw M8\*25
- Hexagon nut M8
- Nut fixed



	<p><b>EZ-AD-C43</b> Adapter (Puck) for Corrugated Iron Roof</p>	<ul style="list-style-type: none"> <li>- Corrugated Tin feet base</li> <li>- Rubber Pad 55*43*2</li> </ul>
	<p><b>ER-S-U/SS5/25</b> U-Support</p>	<ul style="list-style-type: none"> <li>- U Support</li> <li>- Rubber Pad for U Support</li> <li>- Self-drilling screw ST5.8*25</li> </ul>
	<p><b>ER-R-MC/380</b> Mycro Rail</p>	<ul style="list-style-type: none"> <li>- Mycro Rail</li> <li>- Rubber Pad for U Support</li> </ul>
	<p><b>ER-S-U/M/120</b> U Support 120mm, with M-Module channel</p>	<ul style="list-style-type: none"> <li>- U Support 120mm, with M-Module channel</li> <li>- Rubber Pad for U Support</li> </ul>
	<p><b>ER-R-MC/M/380</b> Mycro Rail 380mm, with M-Module channel</p>	<ul style="list-style-type: none"> <li>- Mycro Rail 380mm, with M-Module channel</li> <li>- Rubber Pad for U Support</li> </ul>
	<p><b>EZ-GC-ST</b> Grounding Clip, with Clenergy Logo</p>	<ul style="list-style-type: none"> <li>- Grounding Clip, with Clenergy logo</li> </ul>
	<p><b>EZ-GC-AE</b> Grounding Clip II for Aeri Rail</p>	<ul style="list-style-type: none"> <li>- Grounding Clip II for Aeri Rail</li> </ul>
	<p><b>GC-DT</b> Grounding Clip for DT Rail</p>	<ul style="list-style-type: none"> <li>- Grounding Clip for DT Rail</li> </ul>



**EZ-GL-STII**  
Grounding Lug II

- Grounding Lug II
- Z Module (Anodised)
- Grounding Lug Bolt
- Plain washer 8
- Hexagon socket head cap screw M8\*25
- Washer 8



**EZ-GL-U**  
Rialto Grounding Lug

- Rialto Grounding Lug
- Grounding Lug Bolt



**EZ-CC-PV/4**  
Capilano Cable Clip for PV  
Panels for holding 4 cables

- Capilano Cable Clip for PV Panels for holding 4 cables

# ComT 2.0

The Clenergy PV-ezRack® ComT 2.0 is an universal and fast mounting system for PV installation on all residential or commercial flat tin roofs. With its flexible and scalable design it enables perfect utilization of roof surface available. With tilt angles of 5°, 10° or 15°, the PV panels can generate a maximum output.

## Main Benefits

### Easy and Quick Installation

Highly pre-assembled legs enable easy and fast installation. With only one Z-Module, the legs can easily click into the slot of Rails at any given points. The storage space is greatly reduced due to the innovative 15° Rear Leg Extension, thereby saving the cost of warehouse management.

### Optimize Energy Output

The Legs can mount PV panels that width up to 1200mm. And with 5°, 10° and 15° tilt angles options, PV-ezRack® ComT 2.0 can offer optimized energy output..

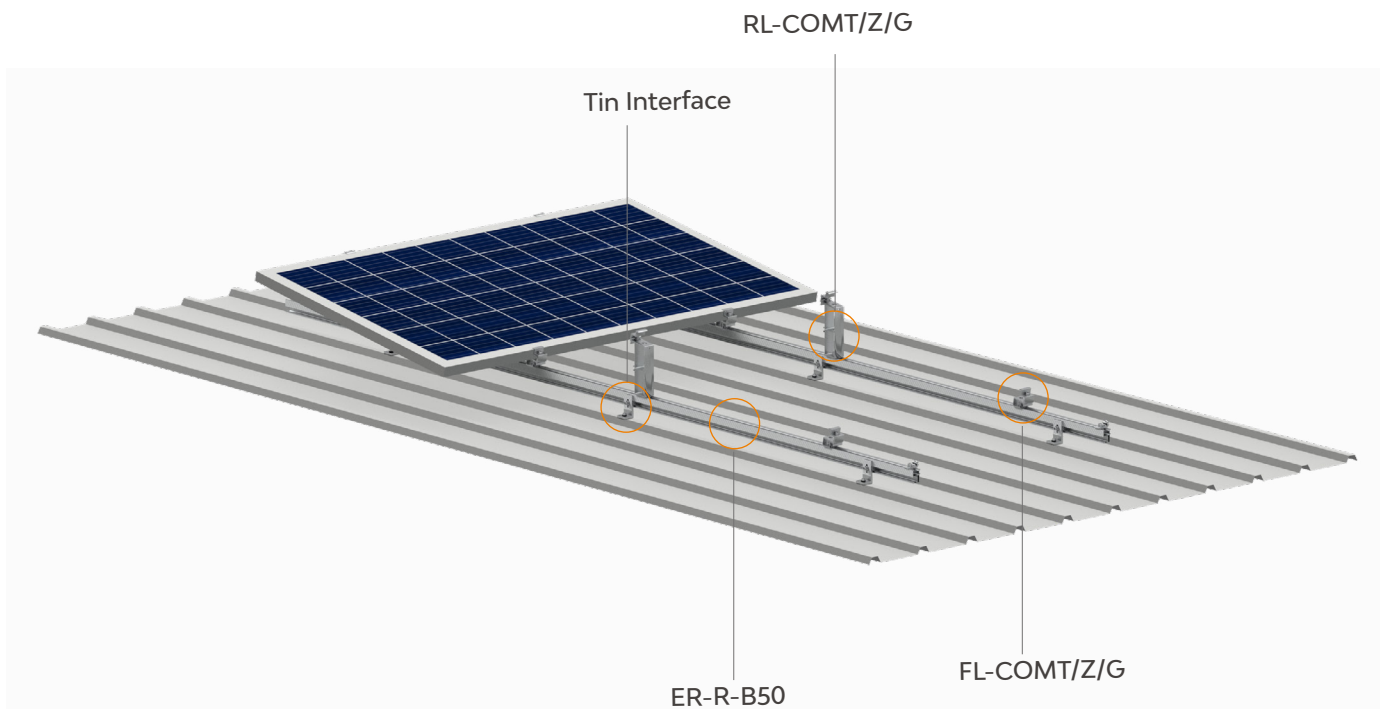
### Universal

The adjustable clamps can mount framed PV panels that height from 30 to 46mm. And with Clenergy various frameless clamps, PV-ezRack® ComT 2.0 can mount every size of frameless or thin film panels.

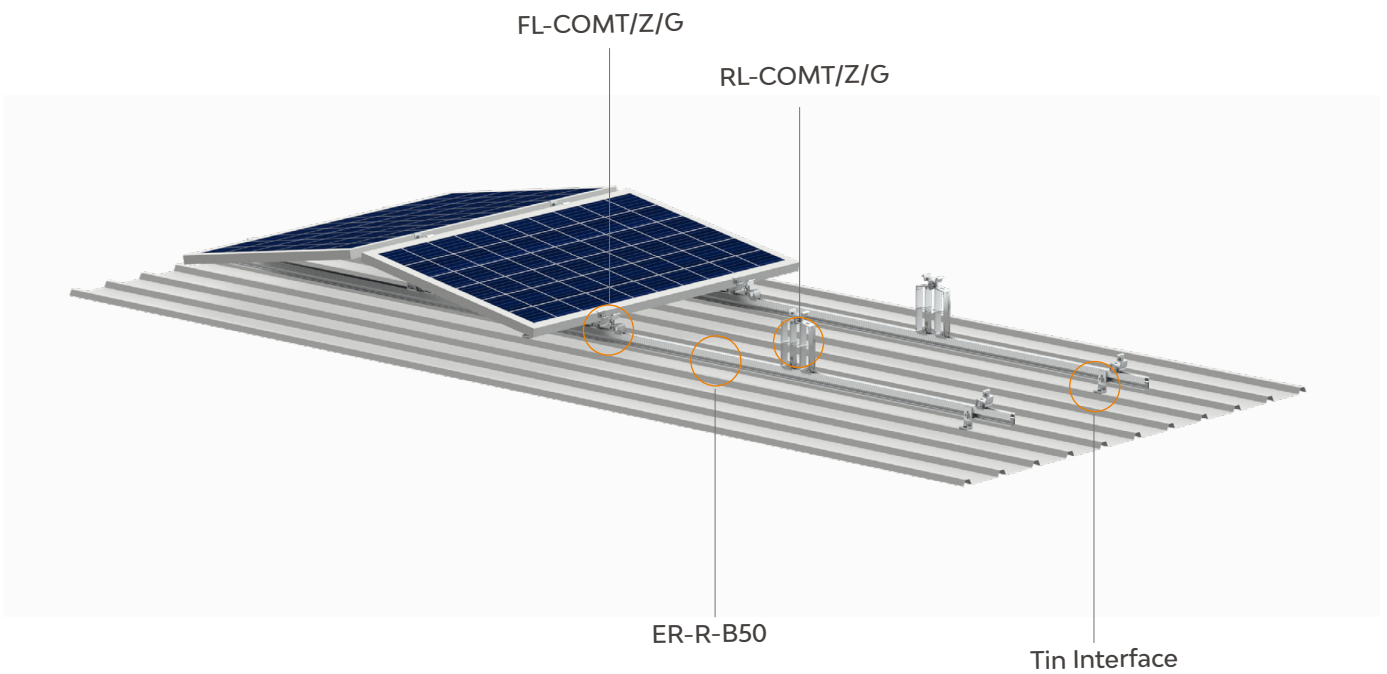
## Technical Details

<b>Roof type</b>	Tin and Flat Roof
<b>PV Panel Dimension</b>	Up to 2400×1200mm
<b>Setting Angle</b>	5°, 10° and 15°
<b>Module Orientation</b>	South/North, East-west: Landscape
<b>Material</b>	Main Components: AL6005-T5 Fasteners: SUS 304
<b>Standard</b>	GB50797   AS NZS1170.2   EN1991   JISC8955   ASCE 7-10   SANS 10160
<b>Warranty</b>	12 years

ComT( South/North )









ComT( East - West )



# Components

	<p><b>FL-COMT/Z/G/5</b> Front Leg Assembly, 5°, with Z-Module and Grounding Pins</p>	<ul style="list-style-type: none"> <li>- ComT, front leg, 5°, with Grounding Pins</li> <li>- ComT, End Clamp</li> <li>- Washer 8</li> <li>- Plain Washer 8</li> <li>- Hexagon socket head cap screw M8 x 25</li> <li>- Hexagon socket head cap screw M8 x 40</li> <li>- Spring 10.2 x 30</li> <li>- Z Module (Anodized)</li> </ul>
	<p><b>RL-COMT/Z/G/5</b> Rear Leg Assembly, 5°, with Z-Module and Grounding Pins</p>	<ul style="list-style-type: none"> <li>- ComT, Rear leg, 5°, with Grounding Pins</li> <li>- ComT, End Clamp</li> <li>- Washer 8</li> <li>- Plain Washer 8</li> <li>- Hexagon socket head cap screw M8 x 25</li> <li>- Hexagon socket head cap screw M8 x 40</li> <li>- O rubber rings Ø10 x 1.9</li> <li>- Z Module (Anodized)</li> <li>- S1/4 x 200mm x H6</li> </ul>
	<p><b>FL-COMT/Z/G/10V2</b> Front Leg Assembly, 10°, with Z-Module and Grounding Pins, version 2</p>	<ul style="list-style-type: none"> <li>- ComT, front leg, 10°, with Grounding Pins, version 2</li> <li>- ComT, End Clamp</li> <li>- Washer 8</li> <li>- Plain Washer 8</li> <li>- Hexagon socket head cap screw M8 x 25</li> <li>- Hexagon socket head cap screw M8 x 40</li> <li>- Spring 10.2 x 30</li> <li>- Z Module (Anodized)</li> </ul>
	<p><b>RL-COMT/Z/G/10V2</b> Rear Leg Assembly, 10°, with Z-Module and Grounding Pins, version 2</p>	<ul style="list-style-type: none"> <li>- ComT, rear leg, 10 degree, with Grounding Pins, version 2</li> <li>- ComT, End Clamp</li> <li>- Washer 8</li> <li>- Plain Washer 8</li> <li>- Hexagon socket head cap screw M8 x 25</li> <li>- Hexagon socket head cap screw M8 x 40</li> <li>- O rubber rings Ø10 x 1.9</li> <li>- Z Module (Anodized)</li> <li>- S1/4 x 250mm x H6</li> </ul>
	<p><b>FL-COMT/Z/G/15</b> Front Leg Assembly, 15°, with Z-Module and Grounding Pins</p>	<ul style="list-style-type: none"> <li>- ComT, front leg, 15°, with Grounding Pins</li> <li>- ComT, End Clamp</li> <li>- Washer 8</li> <li>- Plain Washer 8</li> <li>- Hexagon socket head cap screw M8 x 25</li> <li>- Hexagon socket head cap screw M8 x 40</li> <li>- Spring 10.2 x 30</li> <li>- Z Module (Anodized)</li> </ul>
	<p><b>RL-E-COMT/G/15</b> Rear Leg Extender, 15°, with Grounding Pins</p>	<ul style="list-style-type: none"> <li>- ComT, rear leg, 15 degree, with Grounding Pins</li> <li>- Washer 8</li> <li>- External Teeth Lock Washer 8</li> <li>- Hexagon socket head cap screw M8 x 16</li> <li>- S1/4 x 330mm x H6</li> </ul>

	<p><b>ER-SP-B50</b> Splice for B50 Rail</p>	<ul style="list-style-type: none"> <li>- Splice for B50 Rail</li> <li>- Hexagon socket head cap screw M8*12</li> </ul>
	<p><b>ER-R-B50/XXXX</b> B50 Rail</p>	<ul style="list-style-type: none"> <li>- B50 Rail</li> </ul>
	<p><b>I-05A-6.3/70</b> Tin Interface A with Buildex 14-11 x 70 Hex Head Zips screw for Purlin and screw M8*25</p>	<ul style="list-style-type: none"> <li>- Tin Roof Hook A</li> <li>- Rubber Pad 38*38*2</li> <li>- Z Module (Anodized)</li> <li>- Spring Washer GB/T 93-8</li> <li>- Lock washer M8*18</li> <li>- Hexagon socket head cap screw M8*25</li> <li>- Buildex 14-11 x 70 Hex Head Zips screw</li> </ul>
	<p><b>EZ-AD-C43</b> Adapter (Puck) for Corrugated Iron Roof, with EPDM, for Tin Interface ER-I-05</p>	<ul style="list-style-type: none"> <li>- Corrugated Tin feet base</li> <li>- Rubber Pad 55*43*2</li> </ul>
	<p><b>EZ-GL-STII</b> Grounding Lug II</p>	<ul style="list-style-type: none"> <li>- Plain Washer DIN 125-1-8</li> <li>- Hexagon socket head cap screw M8*25</li> <li>- Z Module (Anodized)</li> <li>- Grounding Lug Bolt</li> <li>- Grounding Lug II</li> <li>- Spring Washer GB/T 93-8</li> </ul>
	<p><b>EZ-CC-PV/4</b> Capilano Cable Clip for PV Panels for holding 4 cables</p>	<ul style="list-style-type: none"> <li>- Capilano Cable Clip for PV Panels for holding 4 cables</li> </ul>

# Ascent/Ascent Wings

## Low ballast tilt mounting system for PV Installation on flat roofs

The PVezRack® Ascent is a low ballast, south/north, east-west facing solution without rails for PV installation on flat roofs. With the special design and a tilt angle of 10° and 15°, Ascent is suitable for pv module length up to 2350mm, width up to 1134mm, height from 28mm to 46mm.

## Main Benefits

### Ballast Optimised

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

### Easy and Quick Installation

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

### Compatibility

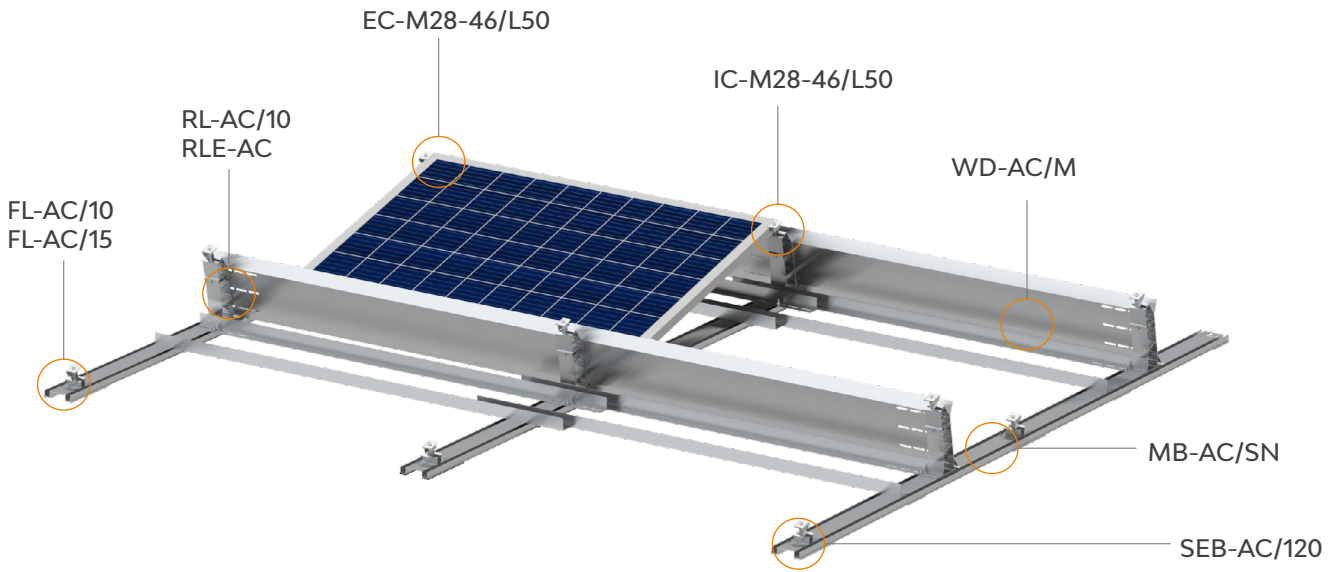
Available with a module widths up to 1134mm, PVezRack® Ascent offers flexible solutions and suitable for all framed PV panels with height from 28 to 46mm. Power optimizer, micro inverter can be easily accommodated.

**12 Year  
Warranty**

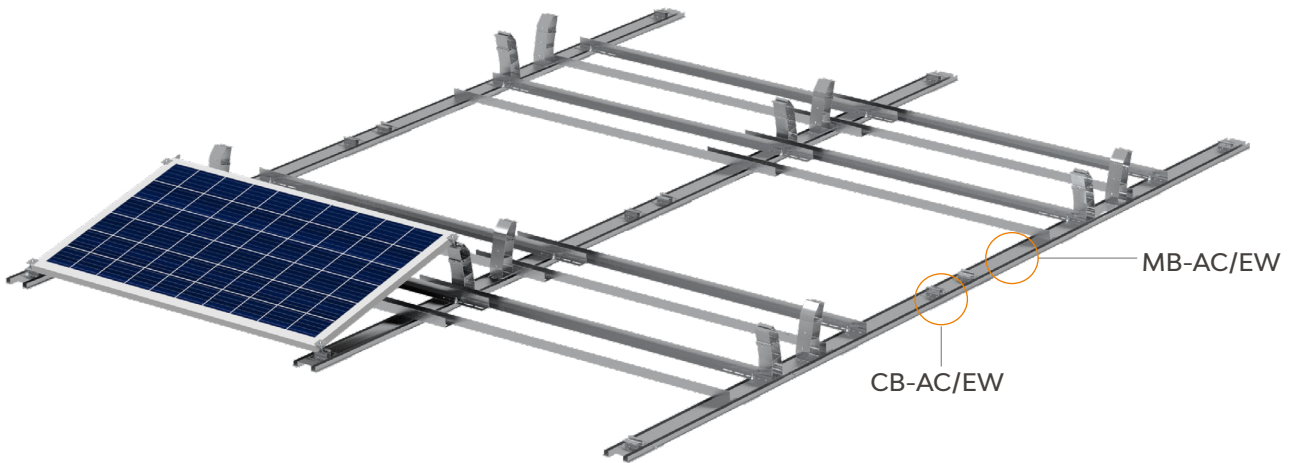
**Commercial**

**Residential**

## Ascent



## Ascent Wings



### Available accessories

- Grounding/earthing
- Cable clips
- Rail caps





**EC-M28-46/L50**

End Clamp 28-46mm,  
with M module

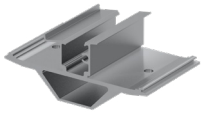
- Universal Clamp, Length 50mm, Anodised
- M Module 16.5\*30.7mm
- Corrugated L-anchor Plate 3
- Button Head Torx Screws M8\*35
- Lock washer 8
- Spring for Universal Clamp



**IC-M28-46/L50**

Inter Clamp 28-46mm,  
with M module

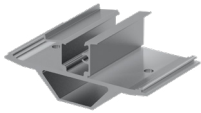
- Universal Clamp, Length 50mm, Anodised
- M Module 16.5\*30.7mm
- Button Head Torx Screws M8\*35
- Lock washer 8
- Spring for Universal Clamp



**FL-AC/10**

Front Leg 10°

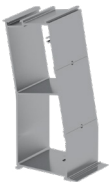
- Front Leg 10°



**FL-AC/15**

Front Leg 15°

- Front Leg 15°



**RL-AC/10**

Rear Leg 10°

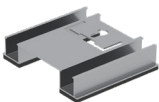
- Rear Leg 10°



**RLE-AC**

Rear Leg Extension

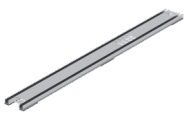


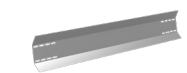


- Rear Leg Extension
- Grounding Lug Bolt II



**SEB-AC/120**

Start and End Base L120

- Start and End Base L120
- Rubber Pad, 120\*30\*5mm

	<p><b>MB-AC/SN</b> Main Base L, South/north</p>	<ul style="list-style-type: none"> <li>- Main Base L1500/L1800, South/north</li> <li>- Rubber Pad, 120*30*5mm</li> </ul>
	<p><b>MB-AC/EW</b> Main Base L, East- west</p>	<ul style="list-style-type: none"> <li>- Main Base L2200, East- west</li> <li>- Rubber Pad, 120*30*5mm</li> </ul>
	<p><b>CB-AC/EW</b> Connection Base, East- west</p>	<ul style="list-style-type: none"> <li>- Connection Base L250, East- west</li> <li>- Rubber Pad, 120*30*5mm</li> </ul>
	<p><b>WD-AC/M</b> Wind Deflector</p>	<ul style="list-style-type: none"> <li>- Wind Deflector 10°/15°, L1920/L2230,MAC Steel</li> <li>- Flange Facing Self-Tapping Screw (washer) ST6.3*32</li> </ul>
	<p><b>BB-AC-XXXXM</b> Ballast Bar , MAC Steel</p>	<ul style="list-style-type: none"> <li>- Ballast Bar-50.8*50.8*1920/2230, with 50mm slot hole</li> <li>- Hexagon nut with flange M8</li> <li>- T-head bolt M8*25</li> </ul>
	<p><b>LS-AC10/XL</b> <b>LS-AC15/XL</b> Leg Support 10°, 15° for XL Panel</p>	<ul style="list-style-type: none"> <li>- Upper Part of Front Leg Support 10° and 15°</li> <li>- Lower Part of Front Leg Support 10° and 15°</li> <li>- Lower Part of Rear Leg Support 10° and 15°</li> <li>- Upper Part of Rear Leg Support 10° and 15°</li> <li>- AC Fix Block 1</li> <li>- AC Fix Block 2</li> <li>- Universal Clamp for M Module 17*32.7mm</li> <li>- Rubber Pad 35*45</li> <li>- Lock washer 8</li> <li>- Spring for Universal Clamp</li> <li>- Hexagon socket button head screw M8*35</li> <li>- Hexagon socket button head screw M8*20</li> <li>- Washer 8</li> <li>- Plain washer 8</li> <li>- Cup head square neck bolts M8*20</li> <li>- Hexagon nut with flange M8</li> </ul>

# Elevate Series – SolarBalcony

PVezRack® launches its latest series “Elevate”, with its flagship product, SolarBalcony, a pre-assembled mounting structure for installations on high-rise balconies. The balcony mounting design affixes to most common-sized balconies. Installation is quicker with all the pre-assembled parts.

## Main Benefits

### Easy Installation

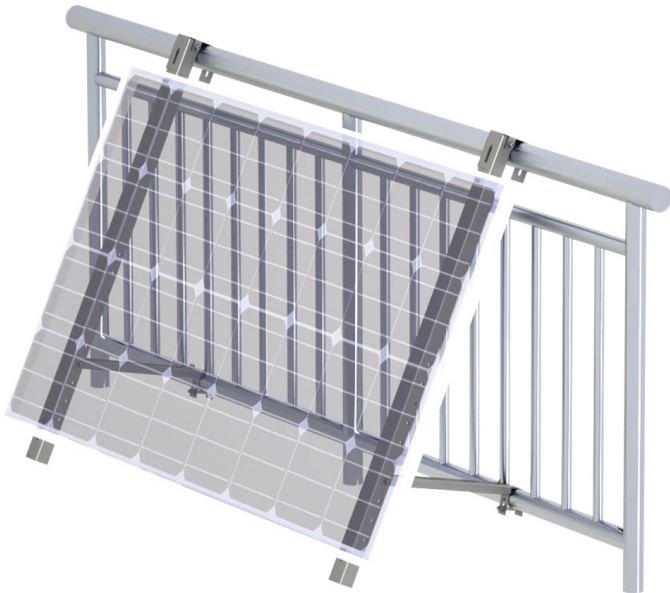
Completely pre-assembled, the SolarBalcony only needs to be unfolded and secured to the balcony for installation. The features result in a fast, easy and cost-efficient installation, which is crucial for residential projects.

### Durable and Low Corrosion

Made of high-quality AL6005-T5 and 304 stainless steel in different Anodised thicknesses, the SolarBalcony is suitable for the harshest environment, such as a corrosive site close to the coast.

### Excellent Compatibility

The standardised components are suitable for both 60-cell and 72-cell panels. Due to the wide range of adjustments, the mounting frame is compatible with most common-sized balconies and metal railings.



### ER-S-SB/L ER-S-SB/L/BA

#### SolarBalcony suitable for large panel

- SolarBalcony, Bracket-up
- SolarBalcony, Bracket-bottom1
- U-Rail, 1290mm
- C-Rail, 740mm
- SolarBalcony , Bracket-bottom 2
- Cup head square neck bolt M8\*25
- Cup head square neck bolt M8\*125
- Hexagon socket head cap screw M8\*75
- Hexagon socket head cap screw M8\*75
- Plain washer 8 – Spring Washer 8
- Hexagon nut M8
- Hexagon socket head cap screw M6\*20
- Plain washer large 6\*18
- Washer 6
- Hexagon nut M6

# SolarTerrace MAC

PVezRack® SolarTerrace MAC is an economic ground-mounting system suitable for commercial and utility-scale PV installations. Thanks to the standardized design, the system is very cost-effective and convenient for PV installations. Manufactured from MAC steel ( Zinc-Aluminium-Magnesium Coating ) with excellent corrosion resistance and an elegant surface, PVezRack® SolarTerrace MAC offers a reliable and durable solution.

## Main Benefits

### Easy and Quick Installation

Thanks to the efficient and simple design with fewer brackets and fasteners, the system can be completed with simple tools in a shorter time.

### Excellent Corrosion Resistance

Manufactured from MAC steel with excellent corrosive resistance nature and self-healing function, the system ensures a reliable protection defending against site corrosion condition.

### Excellent Flexibility

With the design of adjustable slots, the system can be installed flexibly, with multiple adjustment options available.




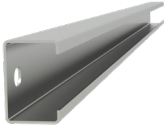

### Three Foundations Available

Concrete foundation, ground screw or ramming post solution available.

## Technical Details

<b>Module Orientation</b>	Landscape or Portrait
<b>Wind Load</b>	Up to 70m/s (ASCE7-10)
<b>Tilt Angle</b>	0-60°
<b>Foundation</b>	Concrete   Ground Screw   Ramming
<b>Material</b>	Main Structure: Zn-Al-Mg Coating Steel Post : HDG Steel Clamps: AL6005-T5 Fasteners: SUS304 or HDG Steel
<b>Land Slope</b>	Up to 30° in East-west direction, no limitation in South-north direction
<b>Standard</b>	AS NZS 1170.2   EURCODE 0-9   JISC 8955   ASCE 7-10
<b>Certification</b>	CE, ETL
<b>Warranty</b>	12 years



 <p><b>ER-TR-P</b> Tie Rod</p>	 <p><b>ER-IC-N/U18</b> Inter Clamp, Nut Series</p>	 <p><b>ER-EC-N</b> End Clamp, Nut Series</p>	 <p><b>R-C80/40-P</b> Rail &amp; Girder &amp; Leg</p>	 <p><b>R-C60/40-P</b> Support</p>
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# SolarTerrace Eco

Clenergy PVezRack® SolarTerrace Eco (ST Eco) is a highly pre-assembled ground mounting system, suitable for commercial PV installation and utility-scale PV installation. Innovative M and W 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

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

### Easy and Fast Installation

Thanks to the completely pre-assembled support, ST Eco only needs to be opened up and secured to the foundation. And with the pre-installed positioning rail clamps, you don't need measure and mark rail positions anymore. The system 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	Up to 70 m/s (ASCE 7-10)
Tilt Angle	0-60°
Foundation	Ground Screw   Concrete
Material	Main Structure: AL6005-T5 Ground Screw: HDG Steel Fasteners: SUS 304
Land Slope	Up to 30° in East-west direction, no limitation in South-north direction
Standard	AS NZS 1170.2   EURCODE 0-9   JISC 8955   ASCE 7-10
Certification	CE, TUV
Warranty	12 years



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

# ezShade 2.0

PVezRack® 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.

## Main Benefits

### Safety

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

### Easy Installation

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

### Waterproof

With the special water guide rails and gutters install under the gap of PV panels, the PVezRack® ezShade 2.0 is totally waterproof. Water will flow along the gap into the gutters and water guide rails, finally into the ground.

## Technical Details

<b>Module Orientation</b>	3P (module length is around 1800±100 mm) 2P (module length is around 2278±150 mm)
<b>Module Type</b>	Framed
<b>Wind Load</b>	Up to 50m/s (3s gust, MRI = 50Y)
<b>Tilt Angle</b>	5° (standard)*
<b>Foundation</b>	Concrete
<b>Material</b>	Main Structure: AL6005-T5 Fasteners: SUS 304
<b>Span</b>	5500 mm (standard)*
<b>Standard</b>	AS NZS 1170.2   EURCODE 0-9   JISC 8955   ASCE 7-10
<b>Mini Ground Clearance</b>	2100mm**
<b>Application</b>	Carport, Backyard Shade, Swimming Pool Shade – Applications are endless
<b>Certification</b>	CE
<b>Warranty</b>	12 years

\*For other values, please consult with Clenergy.

\*\*Only for reference, actual projects may be slightly different.





				
<p><b>R-SDP/70</b> Rail 70</p>	<p><b>R-SDII/168</b> Rail 168</p>	<p><b>G-SDII/150</b> Girder 150</p>	<p><b>GU-SDP</b> Gutter</p>	<p><b>RT-100/90</b> Rectangular Tube 100*90</p>
				
<p><b>SP-SDII/R/168</b> Splice for Rail 168</p>	<p><b>HJ-SDII/158/130</b> H Joint 130</p>	<p><b>BA-SDII/200</b> Corrugated T-Base 200</p>	<p><b>BA-SDII/280</b> Corrugated T-Base 280</p>	<p><b>MC-SDP</b> Module Clamp</p>

# ezShade Razor

PVezRack® ezShade Razor is a solar parking solution generating clean solar energy as well as car sheltering to protect people and vehicles from solar irradiation, snow and rain. The main components are manufactured from high quality steel and aluminum to offer a reliable and robust solution. With multiple waterproof structures, the system is more intelligent and environmentally friendly.

## Main Benefits

### Parking Friendly

With the single post positioned at the end of Carport, ensuring optimal space utilization, people can easily drive in and out either straight or angled parking.

### Safety

High safety performance and easily installation due to innovative clamp which can help fasten PV panels from bottom, avoiding the danger of cracking and preventing workers from falling. Furthermore, an innovative hook design for locating enables quicker installation.

### Waterproof

With the special water guide rails and gutters install under the gap of PV panels, the PVezRack® ezShade Razor is totally waterproof. Water will flow along the gap into the gutters and water guide rails, finally into the ground.

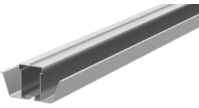

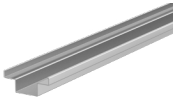
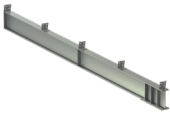





## Technical Details

<b>Module Orientation</b>	3P (module length is around 1800±100 mm) 2P (module length is around 2278±150 mm)
<b>Module Type</b>	Framed
<b>Wind Load</b>	Up to 50m/s (3s gust, MRI = 50Y)
<b>Tilt Angle</b>	5° (standard)*
<b>Foundation</b>	Concrete
<b>Material</b>	Post & Girder: HDG Rails & Clamps: AL6005-T5 Fasteners: HDG or SUS304
<b>Span</b>	5500 mm (standard)*
<b>Standard</b>	AS NZS 1170.2   EURCODE 0-9   JISC 8955   ASCE 7-10
<b>Mini Ground Clearance</b>	2900mm**
<b>Application</b>	Carport, Backyard Shade, Swimming Pool Shade – Applications are endless
<b>Certification</b>	CE
<b>Warranty</b>	12 years

\*For other values, please consult with Clenergy.

\*\*Only for reference, actual projects may be slightly different.



				
<p><b>R-SDP/70</b> Rail 70</p>	<p><b>R-SDII/168</b> Rail 168</p>	<p><b>GU-SDP</b> Gutter</p>	<p><b>G-SDR/5</b> Girder</p>	<p><b>P-SDR/5</b> Post</p>
				
<p><b>SP-SDII/R/168</b> Splice for Rail 168</p>	<p><b>TR-12</b> Tie Rod</p>	<p><b>MC-SDP</b> Module Clamp</p>	<p><b>ER-RC-T</b> Rail Clamp</p>	<p><b>GC-LSR</b> Grounding Clip</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 700W 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, Zn-Mg-Al 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
Signal transmission	Wire (RS485) or wireless (Zigbee)
Backtracking	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	
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



ETL Certification



CPP Wind Tunnel Test



DNV Bankability



**SolarRoof**

China

**100MW**



**SolarRoof**

China

**36MW**



**SolarRoof**

UK

**3.8MW**



**SolarRoof**

Australia

**1.2MW**



**SolarRoof**

Philippines

**4.77MW**



**SolarRoof**

Thailand

**3.3MW**



**SolarTerrace MAC** Vietnam  
138MW



**SolarTerrace MAC** Vietnam  
100MW



**SolarTerrace MAC** Philippines  
60MW



**SolarTerrace MAC** Philippines  
140MW



**SolarTerrace MAC** Saudi Arabia  
44MW



**SolarTerrace MAC** China  
896MW



**SolarTerrace Eco** Vietnam  
80MW



**SolarTerrace Eco** Cambodia  
39MW



**SolarTerrace MAC** Germany  
63MW



**SolarTerrace MAC** Japan  
40MW



**SolarTerrace MAC** Central African Republic  
25MW



**ezTracker** Myanmar  
148MW





**ezTracker**

Japan

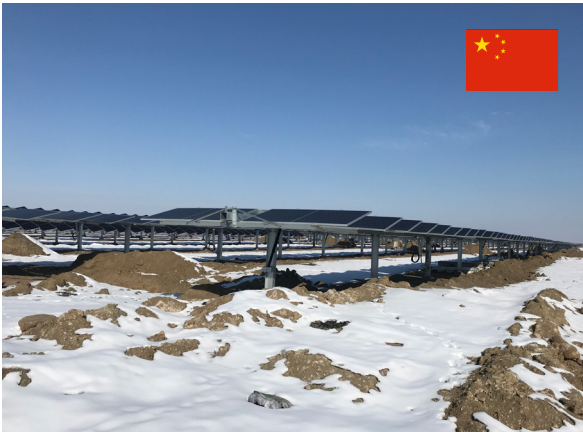
**10MW**



**ezTracker**

Cambodia

**77MW**



**ezTracker**

China

**293MW**



**ezTracker**

China

**336MW**



**ezTracker**

Vietnam

**50MW**



**ezShade 2.0**

Thailand

**5MW**

# Merch Store



Merch Store



# MERCHANDISING





**CLENERACK**  
SOLAR SOLUTIONS

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ELSIES RIVER, WESTERN CAPE 7490

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Sales Manager  
Cell: +27 83-608-1998  
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