



Product Catalogue

Solar Mounting Solution



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

Milestones	3
SolarRoof Pro 2.0	4 - 8
Ascent/Ascent Wings	9 - 12
SolarTripod	13- 15
SolarBalcony	16
SolarTerrace MAC	17 - 18
SolarTerrace Eco	19 - 20
PostMount 1-A, 2-A, 3-A for XL Panels	21 - 24
PostMount 4-A, 6-A for XL Panels	25 - 28
ezShade 2.0	29 - 30
EzTracker D1P	31 - 32
Accessories	33 - 34
Merch Store	35

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

20GW of worldwide installations
Top 5 Solar Tracker Supplier in China
 Largest share of AU rooftop solar PV market for 14 years
13 billion+ kWh green power generation capacity annually

Core Business

Global offering of solar products
 Solar PV + Smart Energy Solution
730,000+ rooftop solar projects
12,000+ 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 Pro 2.0

The Clenergy PVezRack® SolarRoof Pro 2.0 is a roof-mounting solution suitable for most residential and commercial pitched roofs. Using our innovative rail, M module, and interface family, the SolarRoof Pro 2.0 delivers a quick, safe, and cost-effective solution for installers.

Main Benefits

Easy installation with a wide adjustment range

The innovative adjustable tile hook offers a wide range of adjustments for three positions, different thicknesses of tiles, different wooden structures, or building structure tolerance. The wide adjustment range allows faster and easier onsite installation.

Only one tool is required to install the whole system, owing to the unification of the connection point design.

A flexible layout plan fully utilises the roof area

The same kit and components are required for landscape and portrait layouts on residential roofs by simply rotating the L feet on top of the roof hook. It avoids two layers of rail requirement and makes the PV-layout arrangement for irregular roofs more flexible.

Hassle-free solution

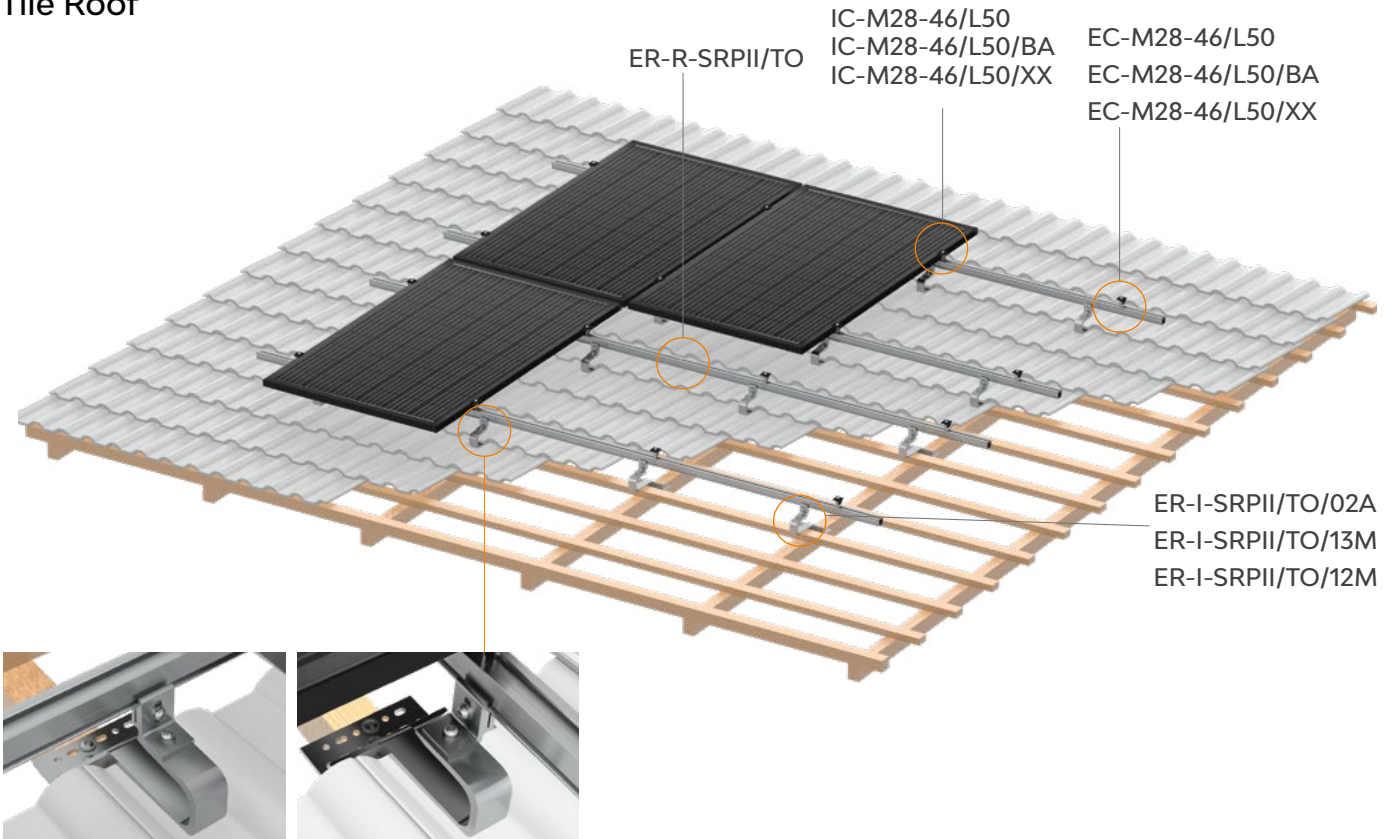
The Clenergy PVezRack® SolarRoof Pro 2.0 is a hassle-free solution. House owners can be worry-free with the stable and high-strength mounting system. High-strength hooks and rails, and ETA-certified screws ensure that house owners need not worry about tile fracturing or mounting system safety on windy or snowy days.

**12 Year
Warranty**

Commercial

Residential

Tile Roof

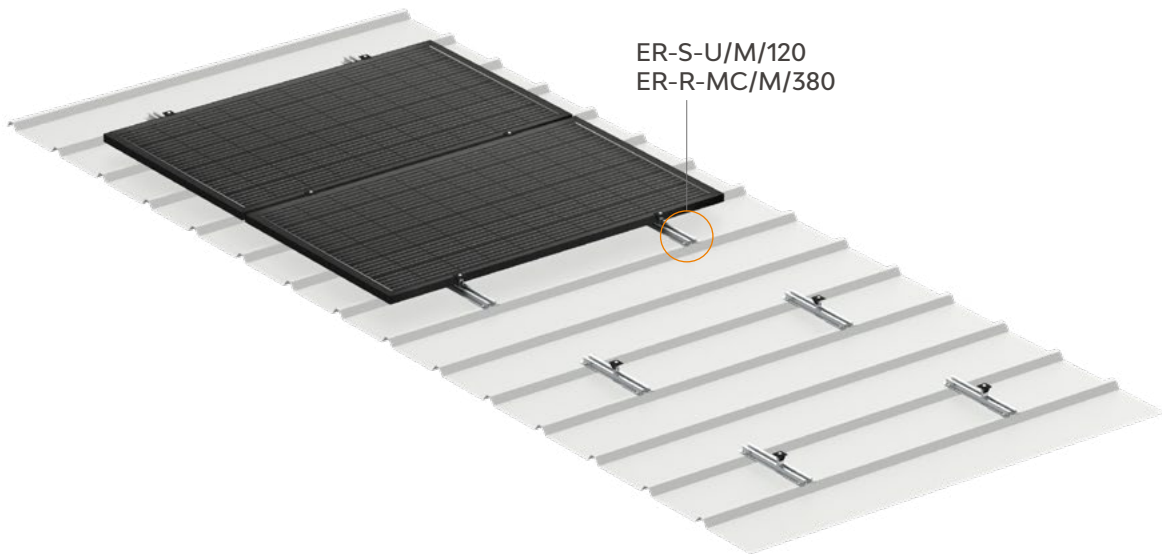


Portrait



Landscape

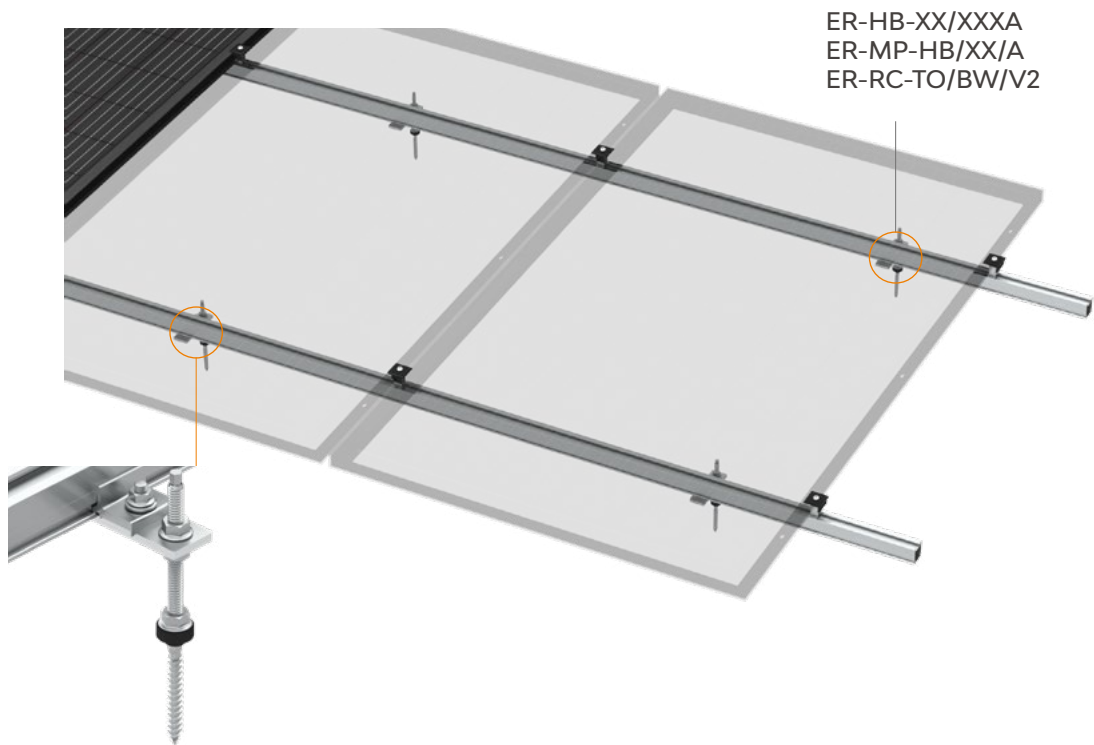
Tin Roof (Penetrative)



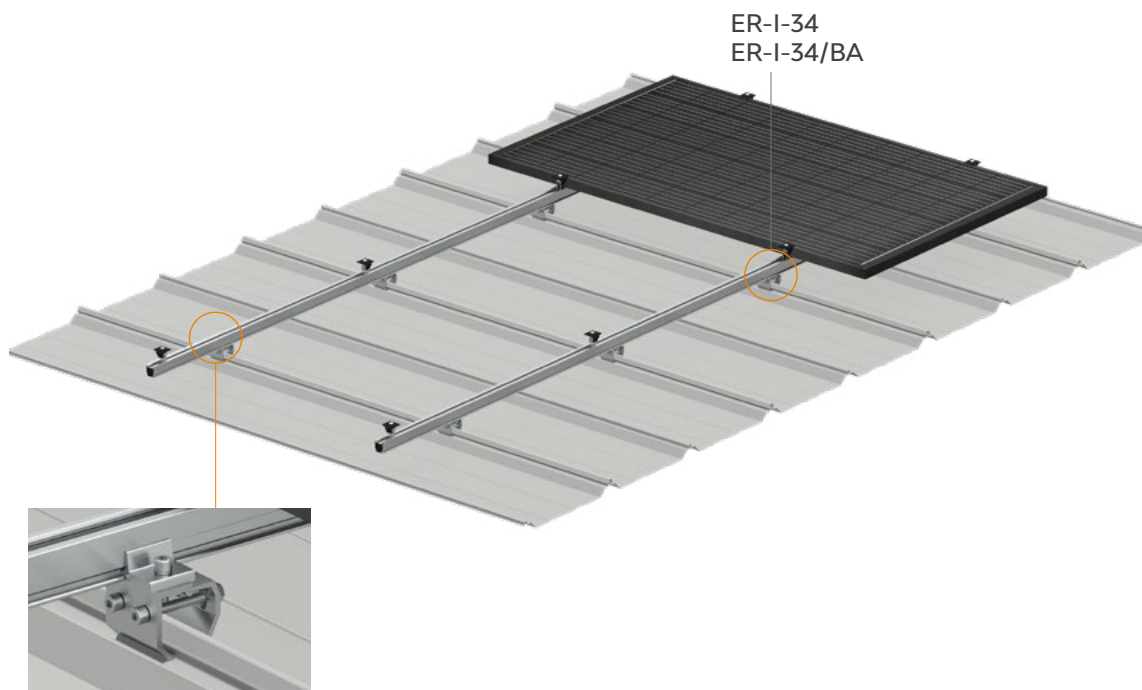
Available accessories

- Grounding/earthing
- Cable clips
- Rail caps

Tin Roof (Penetrative)



Tin Roof (Non-penetrative)

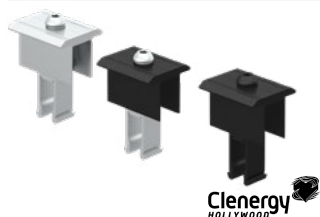




EC-M28-46/L50
EC-M28-46/L50/BA
EC-M28-46/L50/XX

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
IC-M28-46/L50/BA
IC-M28-46/L50/XX

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



ER-R-SRP/II/TO/40

Toroda Rail 40*Lmm

- Toroda Rail 40*Lmm



ER-SP-SRP/II/TO/40

Splice for Toroda Rail 40

- Splice for Toroda Rail 40
- Connection Clip



ER-I-SRP/II/TO/02A

Alu Adjustable Roof Hook
34-56 mm with Toroda rail
connection, wood screw
M8*100




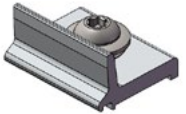



- Roof hook plate of Alu Adjustable Hook 01
- Main body of Alu Adjustable Hook 02
- U-shaped shim 2
- L bracket for SRP interface
- Lower clamp for L bracket, Anodised
- Upper clamp for L bracket, Anodised
- ezClip Spring
- Lock Washer 8*18
- Button Head Torx Screws M8*20
- Button Head Torx Screws M8*27
- Button Head Torx Screws M8*30
- Washer 8
- Plain washer 8
- Wood screw M8*100 T40 ETA



ER-I-SRP/II/TO/12M

Plain Tile Interface H104 with
Toroda-rail Clamp, wood screw
8*100, MAC Steel

- Plain Tile Interface H104, MAC Steel
- Rail Clamp for Toroda Rail
- Wood screw 8*100 T40 ETA
- Button Head Torx Screws M8*27
- Hexagon nut M8
- Nut fixed
- ezClip Spring
- Conical spring Washer 8.5*20

	<p>ER-I-SRPII/TO/13M Beaver Tile Interface H119 with Toroda-rail Clamp, wood screw 8*100, MAC Steel</p>	<ul style="list-style-type: none"> - Beaver Tile Interface H119, MAC Steel - Rail Clamp for Toroda Rail - Wood screw 8*100 T40 ETA - Button Head Torx Screws M8*27 - Hexagon nut M8 - Nut fixed - ezClip Spring - Conical spring Washer 8.5*20
	<p>ER-S-U/M/120 U Support 120mm, with M-Module channel</p>	<ul style="list-style-type: none"> - U Support 120mm, with M-Module channel - Rubber Pad for U Support
	<p>ER-R-MC/M/380 Mycro Rail 380mm, with M-Module channel</p>	<ul style="list-style-type: none"> - Mycro Rail 380mm, with M-Module channel - Rubber Pad for U Support
	<p>ER-RC-TO/BW Rail Clamp Set for Toroda</p>	<ul style="list-style-type: none"> - Rail Clamp for Toroda Rail - Diamond Module M8 - Washer M8.5*20 - Button Head Torx Screws M8*15 - ezClip Spring
	<p>ER-I-34 ER-I-34/BA Brooklyn Klip-lok Clamp</p>	<ul style="list-style-type: none"> - Main Hook of Brooklyn Klip-lok Interface - Side Hook of Brooklyn Klip-lok Interface - Hexagon socket head cap screw M8 x 80 - Hexagon socket head cap screw M8 x 25 - Washer 8 – Plain washer 8 - Hexagon nut M8 - O rubber rings Ø 10 x 1.9
	<p>ER-HB-8/XXXX ER-HB-10/XXXX ER-HB-12/XXXX Hanger Bolt M8/M10/M12*Lmm</p>	<ul style="list-style-type: none"> - Hanger Bolt M8*100,M10/12*200 - Waterproof Gasket - Hexagon nut with flange M8/M10/M12 (coating)
	<p>ER-MP-HB/8/A ER-MP-HB/10/A ER-MP-HB/12/A Mounting Kit for M8/M10/M12 Hanger Bolt</p>	<ul style="list-style-type: none"> - Mounting Plate T6*116 - Rail Clamp for Toroda Rail - Nut M8 - Nut Fixture - Washer M8.5*20 - Button Head Torx Screws M8*27 - ezClip Spring

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 will be suitable for PV module length up to 1134mm, height from 28mm 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.

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

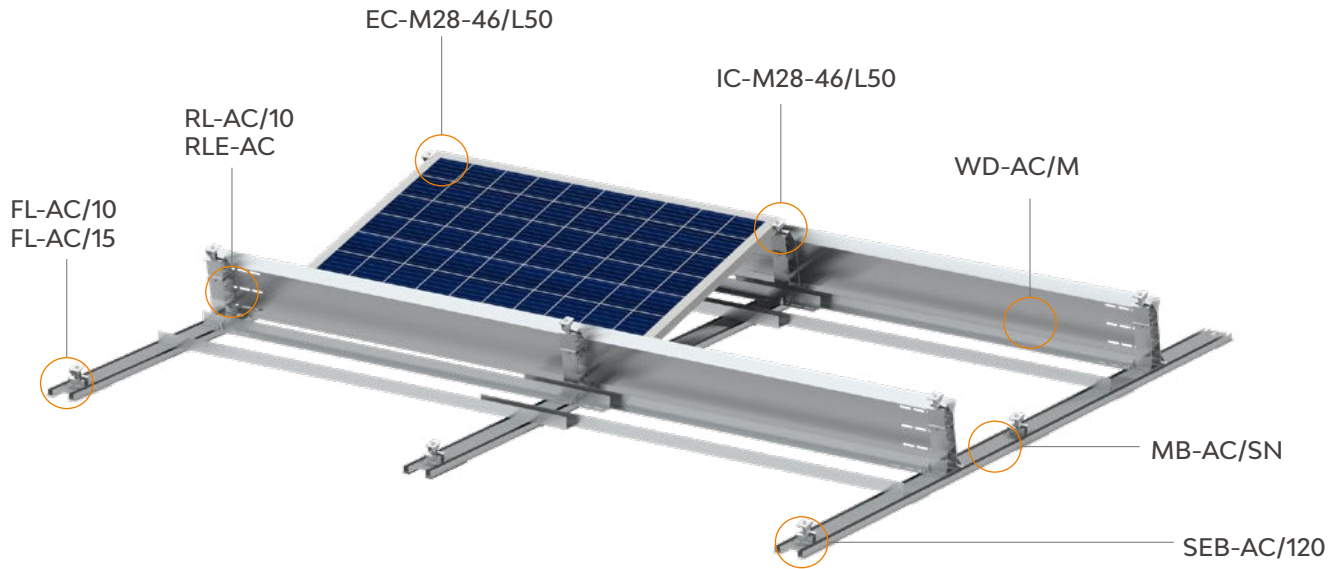
Available with a module widths up to 1134mm, PVezRack® Ascent offers flexible solutions and suitable for all framed PV panels with height from 28 to 46mm. Power optimizer, micro inverter can be easily accommodated.

**12 Year
Warranty**

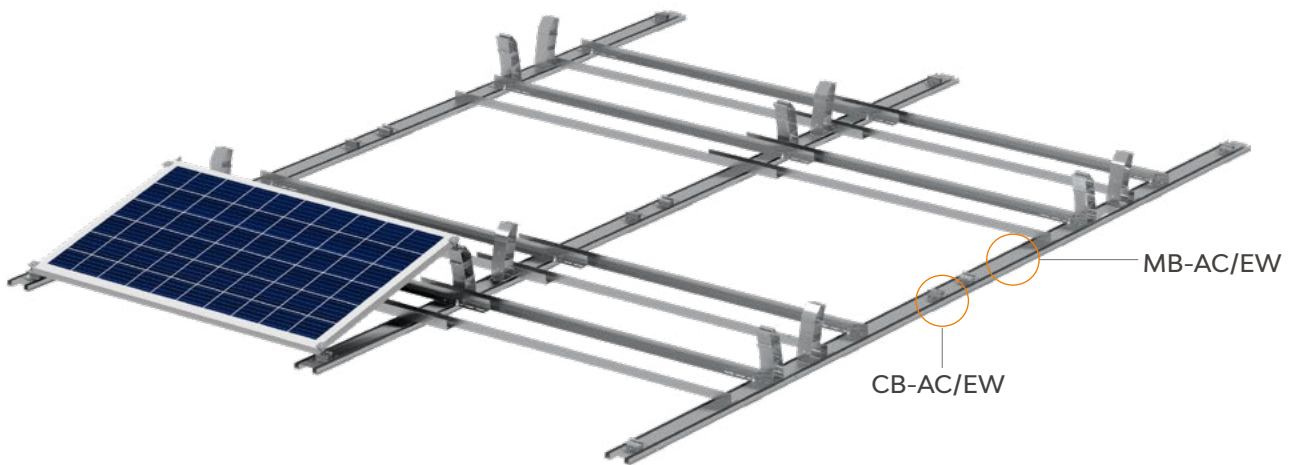
Commercial

Residential

Ascent












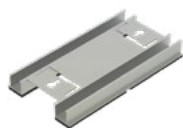



Ascent Wings



Available accessories

- Grounding/earthing
- Cable clips
- Rail caps

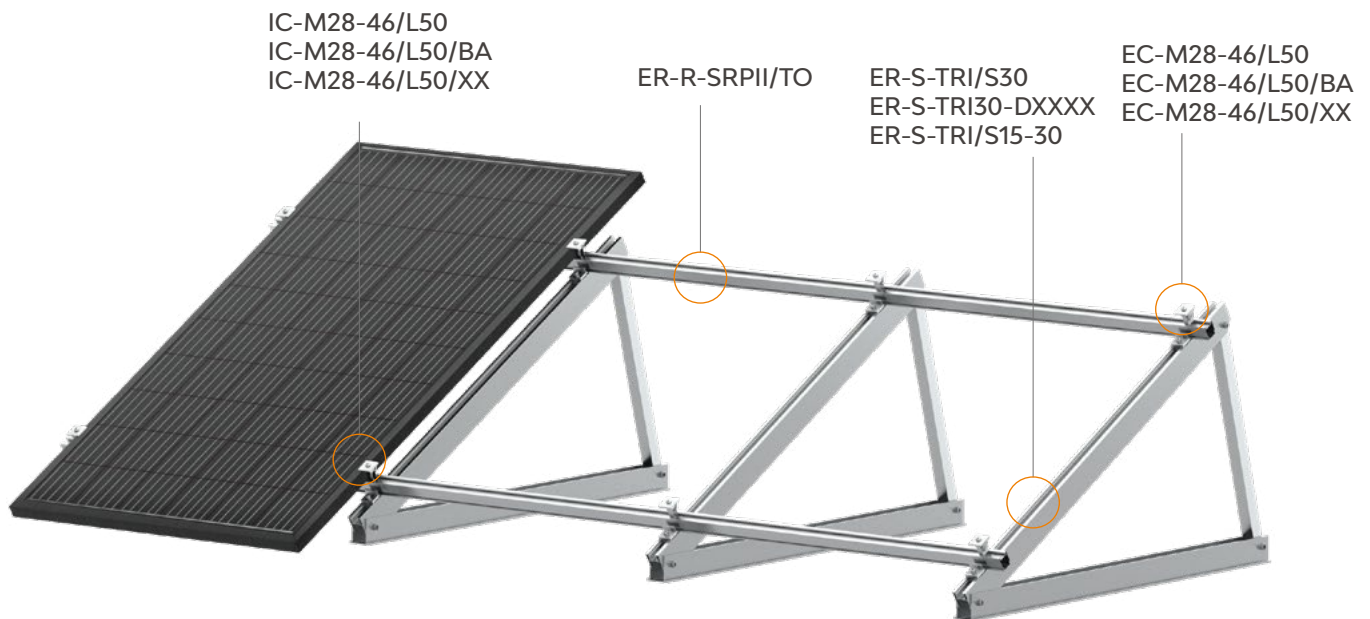
	<p>EC-M28-46/L50 End Clamp 28-46mm, with M module</p>	<ul style="list-style-type: none"> - Universal Clamp, Length 50mm, Anodised - M Module 16.5*30.7mm - Corrugated L-anchor Plate 3 - Button Head Torx Screws M8*35 - Lock washer 8 - Spring for Universal Clamp
	<p>IC-M28-46/L50 Inter Clamp 28-46mm, with M module</p>	<ul style="list-style-type: none"> - Universal Clamp, Length 50mm, Anodised - M Module 16.5*30.7mm - Button Head Torx Screws M8*35 - Lock washer 8 - Spring for Universal Clamp
	<p>FL-AC/10 Front Leg 10°</p>	<ul style="list-style-type: none"> - Front Leg 10°
	<p>FL-AC/15 Front Leg 15°</p>	<ul style="list-style-type: none"> - Front Leg 15°
	<p>RL-AC/10 Rear Leg 10°</p>	<ul style="list-style-type: none"> - Rear Leg 10°
	<p>RLE-AC Rear Leg Extension</p>	<ul style="list-style-type: none"> - Rear Leg Extension - Grounding Lug Bolt II
	<p>SEB-AC/120 Start and End Base L120</p>	<ul style="list-style-type: none"> - Start and End Base L120 - Rubber Pad, 120*30*5mm

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

SolarTripod

Tilted flat roof frame designed for commercial installations

PVezRack® SolarTripod is designed for commercial PV-installations on flat roofs with tilted panels in portrait orientation. The supports are available in fix and adjustable tilt angles, in addition they are compatible with a wide range of purlin distances. The components are made entirely of structural grade (AL6005-T5) Anodised aluminium and stainless steel. SolarTripod is available in two designs: single and double row panels.



Main Benefits

Quick Installation

Completely pre-assembled, the SolarTripod supports simply need to be unfolded and secured to the roof structure for installation. For most installations each leg requires only 2 fixing points and the rails can suitably for large spans. The features result in a fast, easy and cost-efficient installation, which is crucial for residential projects.

Maximising Installation Size and Output on Small Roofs

The DoubleTripod has two rows of PV-panels in portrait orientation. It can utilise effectively narrow roof areas by doubling the installation size and output, which normally accommodate only one row of panels.

Simplicity and Intuitive

The basis BOM includes only 6 SKU, it's simple and intuitive to understand and operate.

**12 Year
Warranty**

Commercial

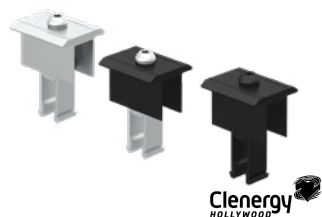
Residential



EC-M28-46/L50
EC-M28-46/L50/BA
EC-M28-46/L50/XX

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
IC-M28-46/L50/BA
IC-M28-46/L50/XX

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



ER-R-SRP11/TO/40

Toroda Rail 40*Lmm

- Toroda Rail 40*Lmm



ER-SP-SRP11/TO/40

Splice for Toroda Rail 40

- Splice for Toroda Rail 40
- Connection Clip

Available accessories

- Grounding/earthing
- Cable clips
- Rail caps



ER-S-TRI/S30
Solar Tripod, Single Support

- Hexagon socket head cap screw M10 x 65
- Plain washer 10
- Washer 10
- Hexagon nut M10
- Tripod U Bracket
- Tripod, Al-Tube 35.5 x 35.5 x L
- Base Support 70 x L
- Upper Support 75 x L
- Bushing Ø18.5 x 35.5



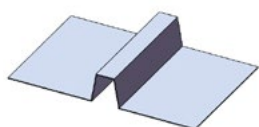
ER-S-TRI30-DXXXX
Solar Tripod, Double Support

- Hexagon socket head cap screw M10 x 65
- Hexagon nut M10
- Plain washer 10
- Washer 10
- Tripod U Bracket
- Base Support 70 x L
- Upper Support 75 x L
- Tripod, Al-Tube 35.5 x 35.5 x L
- Tripod, Al-Tube 35.5 x 35.5 x L
- Bushing Ø18.5 x 35.5



ER-S-TRI/S15-30
Adjustable Tripod

- Base Support 70 x 1350
- Upper Support 75 x 1250
- Leg Tube-358
- Leg Strug-348
- Bushing
- Double-Fixed Block(Anodised)
- Set screw M8 x 12
- Hexagon Socket bolt M10 x 65
- Hex nut M10
- Washer 10
- Flat washer 10
- U Bracket
- Bushing Ø18.5 x 35.5



DF6148-01
Ballast Tray

- SolarRoof Tripod, Ballast Tray



ER-RC-TO/ZBW/V2
Rail Clamp Set for Toroda Rail

- Rail Clamp for Toroda Rail, version 2
- Z Module(Anodised)
- Button Head Torx Screws M8*25
- Lock Washer 8*18

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

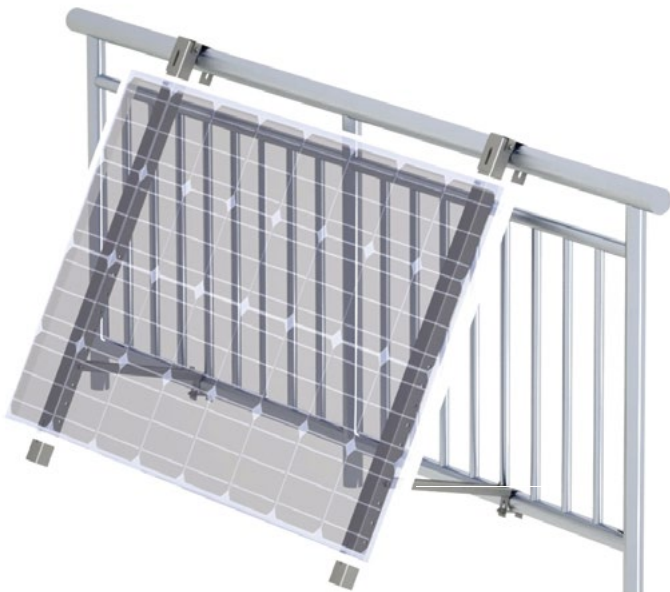
Completely pre-assembled, the SolarBalcony only needs to be unfolded and secured to the balcony for installation. The features result in a fast, easy and cost-efficient installation, which is crucial for residential projects.

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-SBA

PVezRack® SolarBalcony

- SolarBalcony, Bracket-up
- SolarBalcony , Bracket-bottom1
- U-Rail, 1150mm
- C-Rail, 405mm
- SolarBalcony , Bracket-bottom2
- Cup head square neck bolt M8*70
- Cup head square neck bolt M8*125
- Hexagon socket head cap screw M8*25
- 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 standardised design, the system is very cost-effective and convenient for PV installations. Manufactured from the latest magnesium-aluminium-zinc coating steel 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, the parts of the system are reduced by more than 50%. Installation can be completed with simple tools in a short time.

Excellent Corrosion Resistance

The system is manufactured from magnesium-aluminum-zinc coating steel, which possesses 10 to 20 times stronger corrosion resistance than normal hot-dip galvanised steel.

Self-healing Property

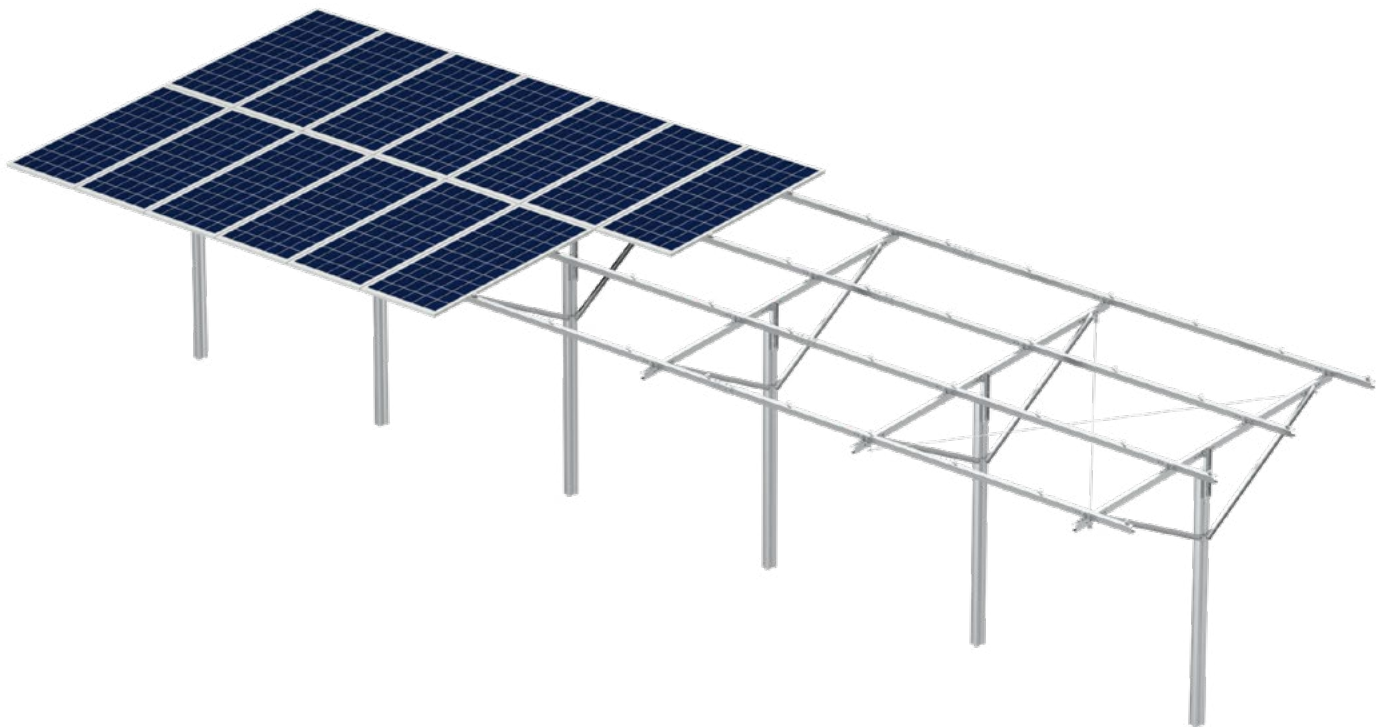
The cut surface forms a dense protective film with low conductivity, which has an inhibitory effect on the corrosion of the cut surface and has an excellent self-healing effect.

Significant Savings

Compared with the double pile-driven post solution, the use of a single pile-driven post enables significant savings on material and labor costs and a shorter construction time frame.

Technical Details

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



				
<p>ER-EC-N35/L50 End Clamp</p>	<p>ER-IC-N32/35/L50 Inter Clamp</p>	<p>ER-R-C80/50/XXXX C-Rail 80*50*15*L</p>	<p>ER-G-C80/50/XXXX Girder C80*50*15*L</p>	<p>ER-B-C60/40/XXXX Brace C60*40*10*L</p>
				
<p>CP-140/95/XXXX C-Post 140*95*L</p>	<p>ER-SP-C80M Splice for C-Rail</p>	<p>ER-AB-75/50 Angle Bracket</p>	<p>ER-TR-N10/XXXX Tie Rod with Nut</p>	<p>HB-ST Bolt</p>

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 module makes the installation more accuracy and efficiency. Using high quality components, ST Eco is more suitable for areas with higher salinity, and significantly saves labor time and costs, especially delivering large scale projects.

Main Benefits

Excellent Corrosion Resistance

Anodised aluminum and stainless steel parts make the system suitable for the harshest environment, such as a corrosive site close to the coast.

Easy and Fast Installation

Completely pre-assembled, the support legs of ST Eco only need to be unfolded and secured to the foundation. With the pre-installed positioning rail clamps, it's not necessary to measure and mark rail positions anymore. The combination of these features save 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	Customised
Tilt Angle	Customised
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>		

PostMount 1/2/3-A for XL Panels

Robust pole mount system with adjustable angle for one, two and three XL panels

Clenergy's PVezRack® PostMount 1/2/3-A for XL Panels delivers flexible and durable designs to mount from one to three panels, up to 2100X1100mm per post. It's ideal for remote off-grid applications such as water pumps or small residential and commercial systems. The panel tilt is easily adjustable between 10° and 60° throughout the year and comes with hassle-free mounting thanks to patented components such as the PVezRack® rails and clamps. The combination of high quality aluminium, stainless steel and galvanised steel components make this a robust, reliable system with excellent corrosion resistance.

Main Benefits

Suitable for Every Soil Condition

With its concrete foundation, PostMount-A can be installed on even or uneven ground or on a slope, making it suitable for any soil type and a wide range of applications.

Adjustable Tilt Angle

The steel cap (post head) is designed to tilt panels between 10° and 60° to ensure that you get the required power output you need anywhere, anytime. Changing the angle merely requires a single pair of spanners.

Robust and Reliable

Mounted on aluminium rails the panels are supported by robust galvanised steel landscape and master tubes secured with stainless steel bolts. The post can be fixed into a concrete foundation and also used as a ramming option.

Quick and Easy Installation

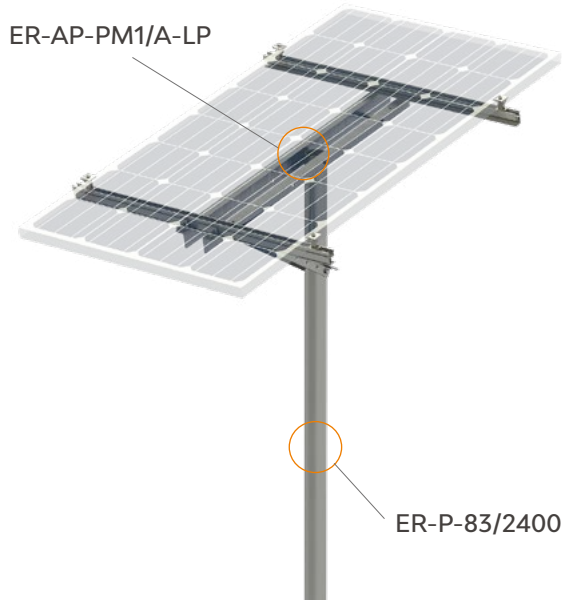
Innovative and internationally patented, the Z-Module technology is used in almost all PVezRack® components. The Z-Module provides a quick, easy and safe installation method and can be inserted in to the rail at any given point, secured with just three hand grips.

**10 Year
Warranty**

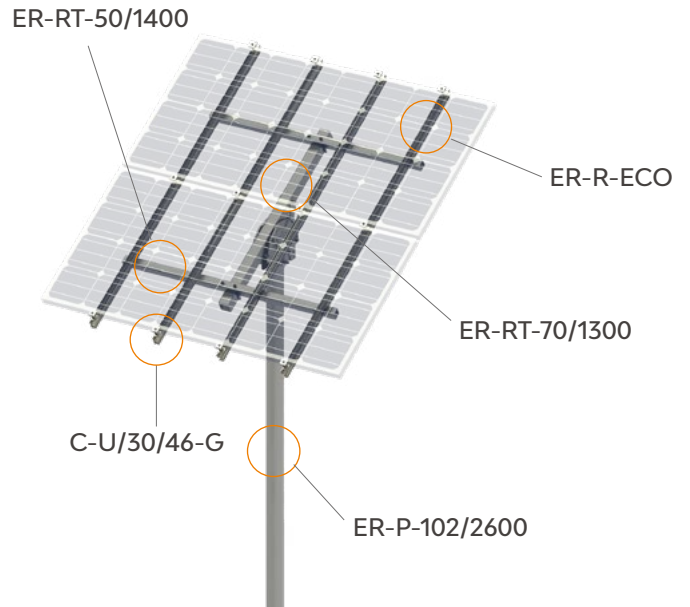
Commercial

Residential

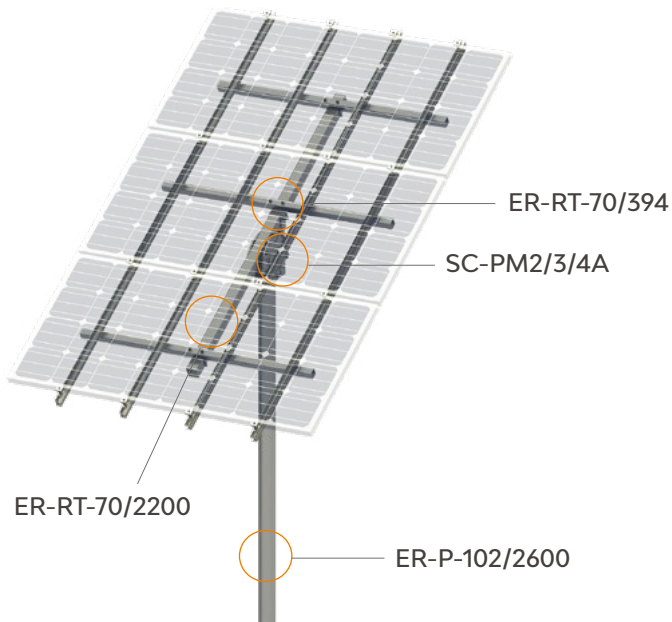
PM 1-A for XL Panels



PM 2-A for XL Panels





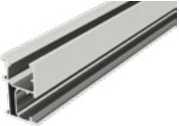




PM 3-A for XL Panels



Available accessories

- Grounding/earthing
- Cable clips
- Rail and Girder cap

Components

	<p>ER-P-102/2600 ER-P-83/2400 Pipe Diameter</p>	<ul style="list-style-type: none"> - Pipe Ø102x2600 (PM2,3-A for XL Panels Pole) - Pipe Ø83x2400 (PM1-A for XL Panels Pole)
	<p>ER-RT-50/1400 Rectangular Tube</p>	<ul style="list-style-type: none"> - Rectangular Tube-Landscape 50 x 50 x 1400
	<p>ER-R-ECO ECO-Rail</p>	<ul style="list-style-type: none"> - Aluminium profile of ECO-Rail - With standard lengths 3600mm and 4400mm
	<p>ER-RT-70/394 Adjustable Tube 70 x 50 x 394</p>	<ul style="list-style-type: none"> - Adjustable Tube 70 x 50 x 394 - Hexagonal bolt M14 x 120 - Hexagon nut M14 - Plain washer 14 - Washer 14
	<p>ER-RT-70/1300 ER-RT-70/2200 Rectangular Tube 70 x 70 x L</p>	<ul style="list-style-type: none"> - Rectangular Tube 70 x 70 x L
	<p>C-U/30/46-G Universal Clamp</p>	<ul style="list-style-type: none"> - Universal Clamp - Module for Universal Clamp - Grounding Clip for Universal Clamp - Hexagon socket button head screw M8 x 55 - Washer 8 - Spring for Universal Clamp
	<p>EZ-GL-ST Grounding Lug</p>	<ul style="list-style-type: none"> - Grounding Lug - Hexagon Socket Head Cap Screw M8 x 25 - Z Module - Washer 8 - Plain washer 8 - Grounding Lug Bolt - Copper Pipe for Grounding Lug



ER-AP-PM1/A-LP

PV-ezRack PM1-A,
Accessory Package

- Aluminum Profile Of ECO-rail 1150, L1150mm
- Angle Steel 63 x 40 x 1250 x T4mm
- Angle Steel 40 x 40 x 682 x T4mm, Right Supporting Rod
- Angle Steel 40 x 40 x 682 x T4mm, Left Supporting Rod
- Sleeve $\varnothing 20 \times 83 \times T3$ mm
- Cross Connection Clamp of ECO-rail, L40mm
- Cup Head Square Neck Bolts M8 x 25
- Hexagon Nut With Flange M8
- Hexagonal Bolt S M12 x 120
- Plain Washer 12mm
- Washer 12mm
- Hexagon Nut M12
- Universal Cable Clip for PV Panels for holding 2 cables



SC-PM2/3/4/A

Steel Cap Assembly

- Steel Cap of PM3-A, PM4-A
- Square washer for PM3-A, PM4-A
- Hexagonal bolt M14 x 150
- Hexagonal bolt M14 x 110
- Plain washer 14
- Washer 14
- Hexagon nut M14
- U washer T1.0 (for PM-A system)
- U washer T2.0 (for PM-A system)

PostMount 4/6-A for XL Panels

Robust pole mount system with adjustable angle for four and six XL panels

Clenergy's PVezRack® PostMount 4/6-A for XL Panels delivers flexible and durable designs to be mounted between four and six panels, up to 2100x1100mm per post. It's ideal for remote off-grid applications such as water pumps or small residential and commercial systems. The panel tilt is easily adjustable between 10° and 60° throughout the year and comes with hassle-free mounting thanks to patented components such as the PVezRack® rails and clamps. The combination of high quality aluminium, stainless steel and galvanised steel components make this a robust, reliable system with excellent corrosion resistance.

Main Benefits

Suitable for Every Soil Condition

With its concrete foundation, PostMount can be installed on even or uneven ground or on a slope, making it suitable for any soil type and a wide range of applications.

Adjustable Tilt Angle

The steel cap (post head) is designed to tilt panels between 10° and 60° to ensure that you get the required power output you need – anywhere, anytime. Changing the angle merely requires a single pair of spanners.

Robust and Reliable

Mounted on aluminium rails the panels are supported by robust galvanised steel landscape and master tubes secured with stainless steel bolts. The post can be fixed into a concrete foundation and also used as a ramming option.

Quick and Easy Installation

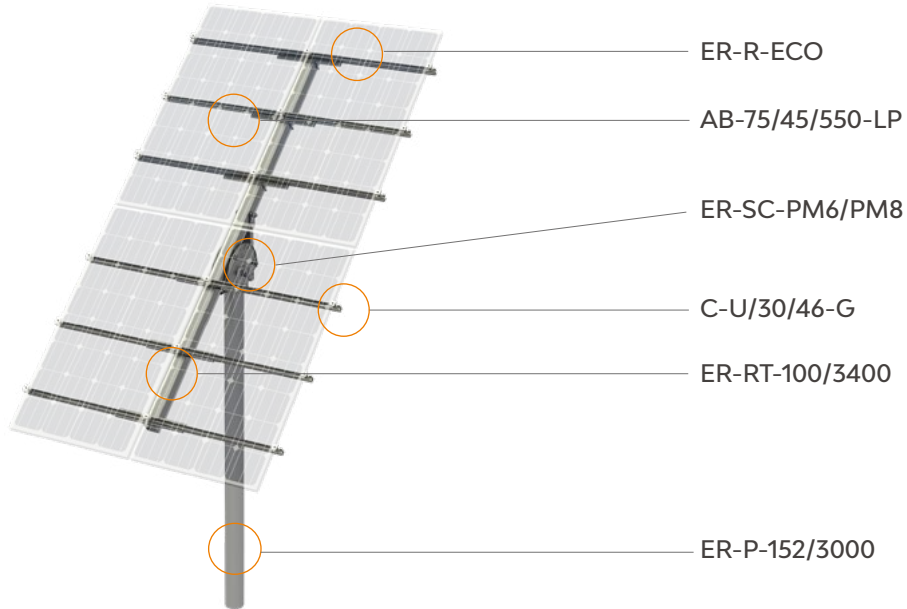
Innovative and internationally patented, the Z-Module technology is used in almost all PVezRack® components. The Z-Module provides a quick, easy and safe installation method and can be inserted into the rail at any given point, secured with just three hand grips.

**10 Year
Warranty**

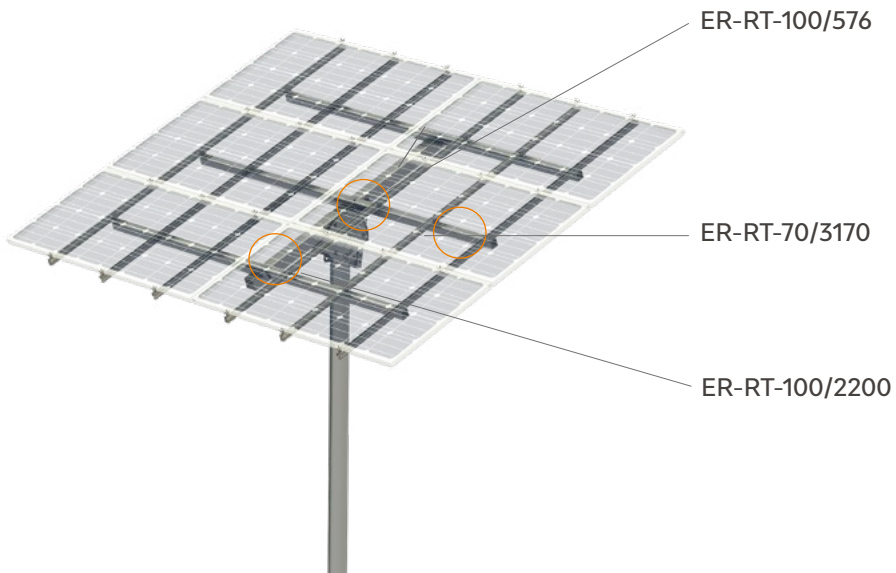
Commercial

Residential

PM 4-A for XL Panels





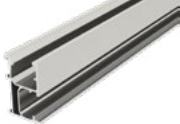




PM 6-A for XL Panels



Available accessories

- Grounding/earthing
- Cable clips
- Rail and Girder cap

Components

	<p>ER-P-152/3000 Pipe 152 x 3000 (PM6,8-A Pole)</p>	<ul style="list-style-type: none"> - Pipe Ø152 x 3000
	<p>ER-RT-70/3170 Rectangular Tube</p>	<ul style="list-style-type: none"> - Rectangular Tube-Landscape 70 x 70 x 3170
	<p>ER-R-ECO ECO-Rail</p>	<ul style="list-style-type: none"> - Aluminium profile of ECO-Rail - With standard lengths 3600mm and 4400mm
	<p>ER-RT-100/576 Adjustable Tube 100 x 50 x 576</p>	<ul style="list-style-type: none"> - Adjustable Tube 100 x 50 x 576 - Hexagonal bolt M20 x 160 - Hexagon nut M20 - Plain washer 14 - Washer 20
	<p>ER-RT-100/2200 Rectangular Tube 100 x 100 x 2200</p>	<ul style="list-style-type: none"> - Rectangular tube 100 x 100 x 2200 with pre-welded angle brackets
	<p>C-U/30/46-G Universal Clamp</p>	<ul style="list-style-type: none"> - Universal Clamp - Module for Universal Clamp - Grounding Clip for Universal Clamp - Hexagon socket button head screw M8 x 55 - Washer 8 - Spring for Universal Clamp
	<p>EZ-GL-ST Grounding Lug</p>	<ul style="list-style-type: none"> - Grounding Lug - Hexagon Socket Head Cap Screw M8 x 25 - Z Module - Washer 8 - Plain washer 8 - Grounding Lug Bolt - Copper Pipe for Grounding Lug



AB-75/45/550-LP
Angle Bracket 75 x 45 x 550

- Postmount4-A Angle Bracket 75 x 45 x 550
- U bolt M10x140 (with 100 x 100 tube)
- Plain washer 10
- Washer 10
- Hexagon nut M10
- Hexagon socket head cap screw M8 x 28
- Plain washer 8
- Washer 8
- Hexagon nut M8
- Cross connection clamp



ER-RT-100/3400
Rectangular tube 100 x 100 x 3400

- Rectangular tube 100 x 100 x 3400



ER-SC-PM6/PM8
Steel Cap Assembly

- Steel Cap of PM6-A, PM8-A
- Square washer for PM6-A, PM8-A
- Hexagonal bolt M20 x 210
- Hexagonal bolt M20 x 160
- Plain washer 20
- Washer 20
- Hexagon nut M20

ezShade 2.0

PVezRack® ezShade 2.0 is a solar parking solution providing solar panels support as well as car shelter for residential and commercial projects. The high quality aluminum components and stainless steel fasteners ensure a robust and reliable system. The innovative design can achieve waterproof function without using many EPDM rubbers. Both silver Anodised and black Anodised options are available.

Main Benefits

Easy Installation

Due to innovative structural design, the system can be installed with less steps and time.

Waterproof

The innovative structure design can achieve waterproof function and verify in the rainy day.

Excellent Corrosion Resistance

Manufactured from high quality Anodised aluminum and stainless steel , the system offers reliable and durable solution with excellent corrosion resistance.

Customised Solution Available

The system is suitable for projects of small and large scale parking lots. Customised N-Shape and W-Shape supports , silver Anodised and black Anodised options are all available.

Technical Details

Module Orientation	Landscape or Portrait
Wind Load	Customised
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>

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
- Improved stability-ensure strength and lifelong use



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

Accessories

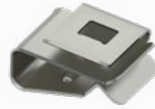
Earthing / Grounding components

	<p>EZ-GL-TO Grounding Lug for Toroda Rail</p>	<ul style="list-style-type: none"> - DC Grounding Lug, Anodised - W Module 6.1mm, Anodised - Spring Washer 8 - Button Head Torx Screws M8*15
	<p>EZ-GL-U Rialto Grounding Lug</p>	<ul style="list-style-type: none"> - Rialto Grounding Lug - Grounding Lug Bolt
	<p>EZ-GL-ST Grounding Clip (standard)</p>	<ul style="list-style-type: none"> - Grounding Lug,with Clenergy Logo - Hexagon Socket Head Cap Screw M8*25 - Z Module - Washer 8 - Plain Washer 8 - Grounding Lug Bolt
	<p>EZ-GC-SII Grounding Clip</p>	<ul style="list-style-type: none"> - Grounding Clip II for Carbon Steel Mounting System
	<p>EZ-GC-ST Grounding Clip (standard)</p>	<ul style="list-style-type: none"> - Grounding Clip (standard)
	<p>GC-DT Grounding Clip for DT Rail</p>	<ul style="list-style-type: none"> - Grounding Clip for DT Rail

Cable clips



EZ-CC-PV/2
Universal Cable Clip for PV Panels for holding 2 cables



EZ-CC-PV/2/L
Universal Cable Clip for PV Panels for holding 2 cables, Landscape



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



EZ-CC-PV/4/L
Universal Cable Clip for PV Panels for holding 4 cables, Landscape

Rail caps



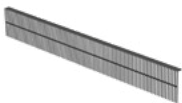
EZ-CAP-TO/40
Cap for Toroda Rail 40



CAP-TM90
Cap for TM Rail 90



Other



EZ-SS-PV
DFendr - Solar Skirt for PV Panels



EZ-SC-PV
DFendr - Solar Skirt Clip for PV Panels



Merch Store



Merch Store






PV-ezRACK®

Clenergy

1001-1009 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

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