

# **PV-ezRack® Product Catalogue**

## Solar Mounting Solutions



Clenergy is proud to support its customers and is committed to making the world a cleaner and safer place for future generations.

The background of the image features a series of overlapping, wavy bands in various shades of orange and red, creating a dynamic, flowing effect that suggests movement and energy.

# Contents

01	About Clenergy
02	Milestones
03	PV-ezRack® SolarRoof™
05	PV-ezRack® SolarTripod Light
07	PV-ezRack® Ascent
09	PV-ezRack® Ascent Wings
11	PV-ezRack® ezShade Pergola
13	PV-ezRack® SolarTerrace I
15	PV-ezRack® SolarTerrace MAC
17	PV-ezRack® SolarTerrace Eco
19	PV-ezRack® ezShade 2.0
21	PV-ezRack® SolarFloating Pro
23	PV-ezRack® SolarFloating II
25	PV-ezRack® PostMount Pivot 1.0
27	EzTracker D Series
31	EzTracker D2P Pro
33	Global Projects

# About Clenergy

Clenergy, listed on Shanghai Stock Exchange (stock code: SHA 603628), is a high-tech Sino-Australian company that specializes in solar product manufacturing, and clean energy service and investment combined with the smart energy solution.

Clenergy has grown from being a boutique solar solutions provider into a passionate, globally renowned renewable energy company with nearly 500 employees around 3 continents.

Clenergy has set up branches and offices in Australia, Germany, Japan, Thailand, the Philippines, etc., with its footprint across the world to make our products and services more accessible to local customers.



## 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 10 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

- **2007** - Clenergy was established as a Sino-Australian joint venture in Xiamen, China.
- **2008** - Clenergy Australia was established; Clenergy completed the development of its first PV-ezRack® series of mounting systems and patents were registered.
- **2009** - The PV-ezRack® series took a leading position in Australia's PV market.
- **2010** - New models of the PV-ezRack® series were released; SPH inverters were launched in Australia's PV market.
- **2011** - Strategic investments were brought in for public listing preparation; U.K. and U.S. branch offices were established.
- **2012** - Opening of Clenergy Tianjin factory.
- **2013** - Grand opening of Clenergy Technology Park in Xiamen; Establishment of Clenergy (Xiamen) Energy Engineering Co., Ltd.; Expansion into clean energy investment and EPC businesses; Establishment of Clenergy Japan.
- **2014** - Establishment of a joint venture - Clenergy (Xiamen) Energy Investment Co., Ltd. with Xiamen Hi-tech Innovation Center; Establishment of Malaysian office.
- **2015** - Establishment of Clenergy Thailand; Establishment of Clenergy Philippine office.
- **2016** - Passed the IPO audit - the first solar company with major business of solar racking approved on China A-share since 2012.
- **2017** - Clenergy (stock code: SHA 603628) stock was officially traded on Shanghai Stock Exchange on Jan 12, 2017. Establishment of Clenergy Global Projects GmbH.
- **2018** - Doubled the sales volume and shipped 1.7GW of solar products.
- **2019** - Ranked No.4 in Top 20 Chinese Solar Mounting System Companies.
- **2020** - Annual shipments reached 2GW in 2020; Bagged 293MW order in Shihezi, Xinjiang, making it the largest solar tracker project within China in 2020.



# PV-ezRack® SolarRoof™

Robust Solution for PV Installation on Pitched Roofs

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.

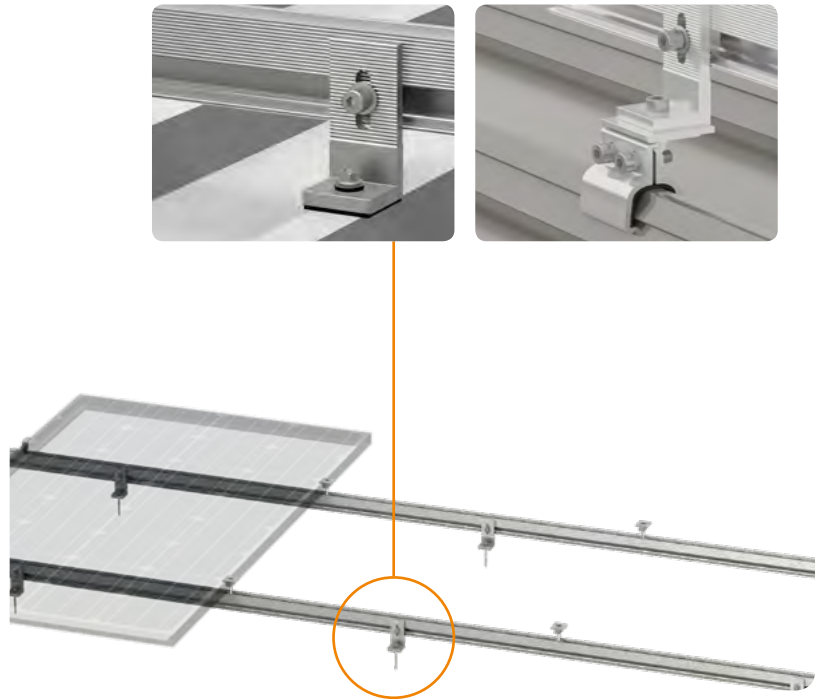
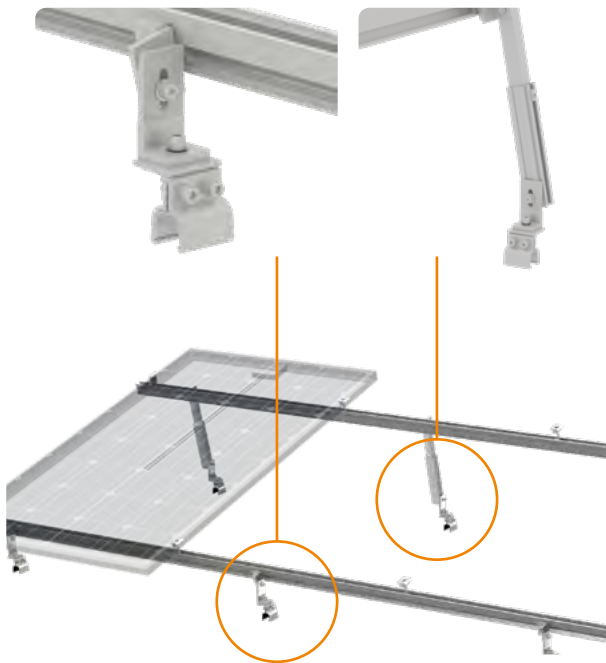


## Technical Details

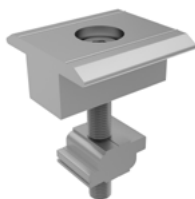
<b>Module Orientation</b>	Landscape or Portrait
<b>Module Type</b>	Framed   Frameless
<b>Wind Load</b>	Customized
<b>Roof Type</b>	Tin Roof
<b>Tilt Angle</b>	0°/10~15°/15~30°/30~60°
<b>Material</b>	Main Structure: AL6005-T5 Fasteners: SUS 304
<b>Standard</b>	ASCE 7-10   AS NZS1170.2-2011   EN1991   JISC8955-2017

## Main Benefits

- Quick and Easy Installation
- Versatile Klip-lok Interface



**ER-EC-ST**  
End Clamp



**ER-IC-ST**  
Inter Clamp



**ER-R-ECO**  
ECO Rail



**ER-SP-ECO**  
Splice for ECO Rail



**I-05/6.3/85/C**  
Tin Interface with Carbon  
Steel Sheet Metal Screw  
6.3x85 (metal purlin)



**ER-I-32/45/M8**  
Klip-lok Interface 406  
with U-opening

.....  
more than 30 types of Klip-lok  
Interfaces



**TL-10/15/L/PS, TL-15/30/L/PS**  
Adjustable Tilt Legs with L-feet

# PV-ezRack® SolarTripod Light

Pre-assembled Residential and Commercial Flat Roof Mounting System

The PV-ezRack® SolarTripod Light with pre-assembled Supports, including pre-installed Rail Clamps, is an economical mounting system, which is suitable for residential and commercial flat roofs. It has the fastest installation speed in its class. This system is manufactured from structural grade aluminium alloy to ensure excellent corrosion resistance and light weight.

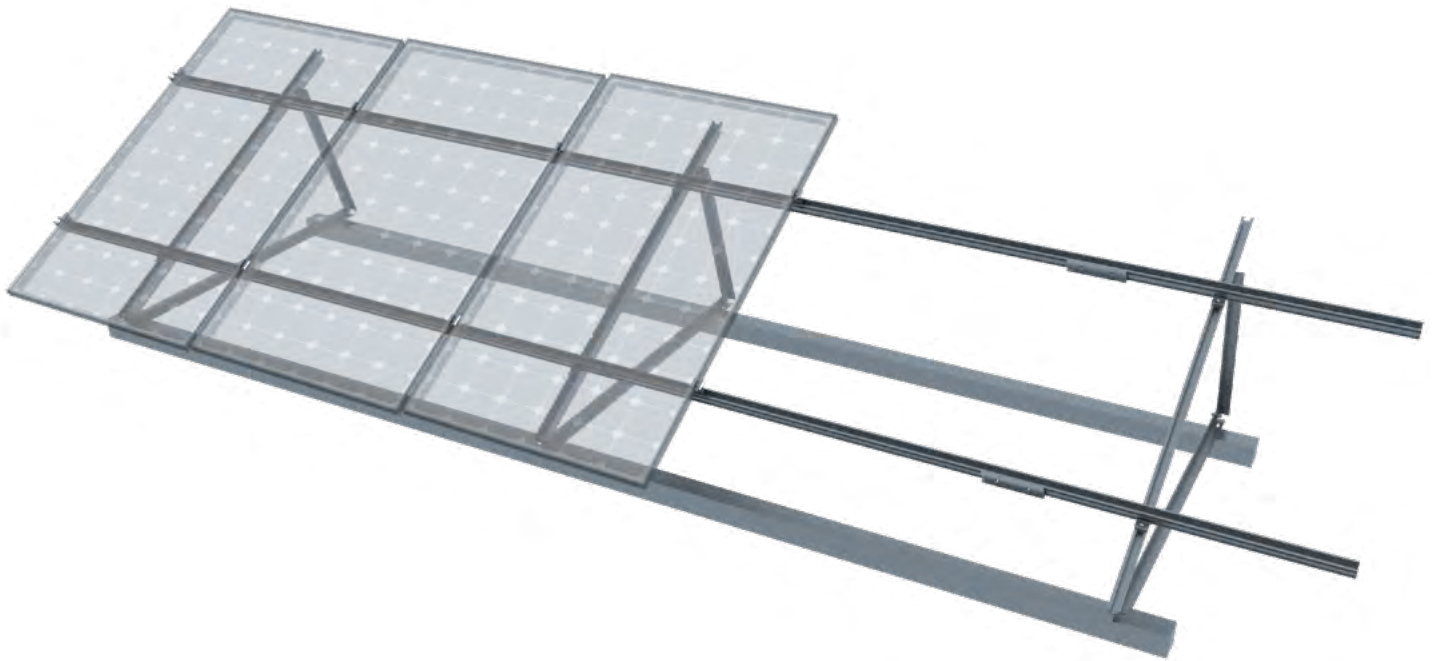


## Technical Details

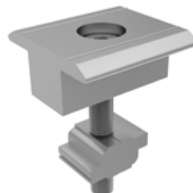
<b>Module Orientation</b>	Portrait or Landscape
<b>Module Type</b>	Framed   Frameless
<b>Wind Load</b>	Customized
<b>Roof Type</b>	Tin Roof or Flat Roof
<b>Tilt Angle</b>	10°~30°
<b>Material</b>	Main Structure: AL6005-T5 Fasteners: SUS 304
<b>Standard</b>	ASCE 7-10   AS NZS1170.2-2011   EN1991   JISC8955-2017

## Main Benefits

- Fast and Easy Installation
- Cost Reduction
- Grounding/Earthing Function
- Universal Application



**ER-EC-ST**  
End Clamp



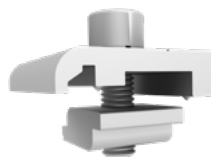
**ER-IC-ST**  
Inter Clamp



**ER-R-ECO**  
ECO Rail



**ER-SP-ECO**  
Splice for ECO Rail



**RC-ECO/G**  
Rail Clamp



**ER-S-TRIL/S**  
Single Support  
(Pre-assembled)

# PV-ezRack® Ascent

Low Ballast Tilt Mounting System for PV Installation on Flat Roofs

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

<b>Application</b>	Flat roof
<b>Setting Angle</b>	10°/15°
<b>Module Orientation</b>	South/North: Landscape
<b>Module Size</b>	Width: 990-1100 mm Length: 1640-2180 mm Height: 30-46 mm
<b>Snow Load</b>	Customized
<b>Wind Load</b>	Customized
<b>Material</b>	Main Components: AL6005-T5 Wind Deflector: AL5052-H32 Fasteners: SUS 304
<b>Certification</b>	TUV
<b>Standard</b>	Eurocode 0-9   AS NZS1170.2-2011   JISC8955   ASCE 7-10



**FL-AC/10 FL-AC/15**  
Front Leg 10°/15°

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



**RL-AC/10**  
Rear Leg 10°



**RLE-AC**  
Rear Leg Extension

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

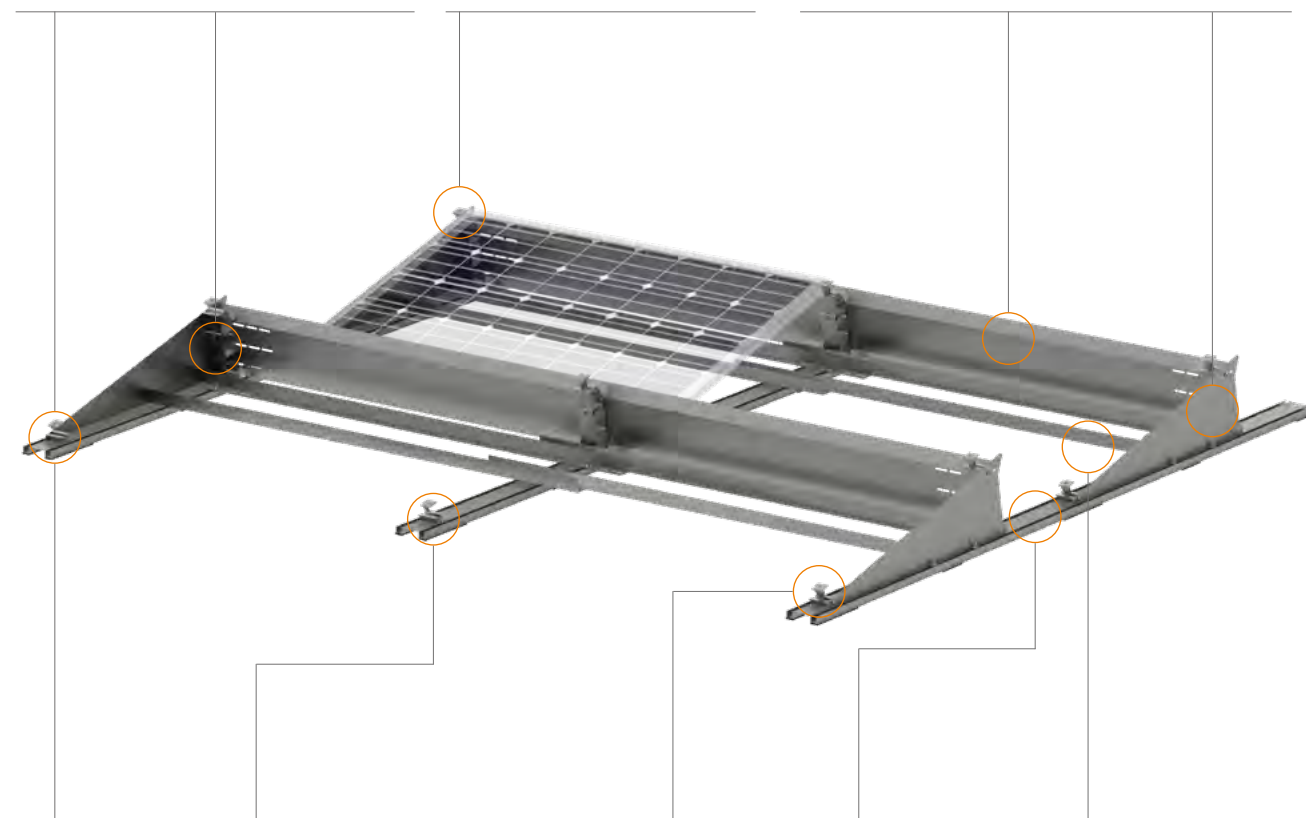


**WD-AC**  
Wind Deflector

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



**SWD-AC**  
Side Wind Deflector

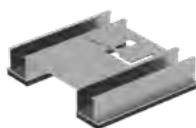


**EC-M**  
End Clamp

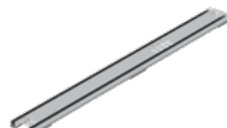


**IC-M**  
Inter Clamp

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



**SEB-AC/120**  
Start and End Base L120



**MB-AC/SN**  
Main Base, South-north

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



**ER-AA-50/XXXX/50**  
Angle AL

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

# PV-ezRack® Ascent Wings

Low Ballast Tilt Mounting System for PV Installation on Flat Roofs

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

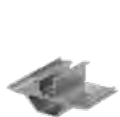
With the click connections between Legs and Bases, no tools are used during the Legs and Bases assembly. The storage space is greatly reduced due to the innovative Rear Leg Extension, thereby saving the cost of warehouse management.

### 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

<b>Application</b>	Flat roof
<b>Setting Angle</b>	10°/15°
<b>Module Orientation</b>	East/West: Landscape
<b>Module Size</b>	Width: 990-1100 mm Length: 1640-2180 mm Height: 30-46 mm
<b>Snow Load</b>	Customized
<b>Wind Load</b>	Customized
<b>Material</b>	Main Components: AL6005-T5 Wind Deflector: AL5052-H32 Fasteners: SUS 304
<b>Certification</b>	TUV
<b>Standard</b>	Eurocode 0-9   AS NZS1170.2-2011   JISC8955   ASCE 7-10



**FL-AC/10 FL-AC/15**  
Front Leg 10°/15°

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



**RL-AC/10**  
Rear Leg 10°



**RLE-AC**  
Rear Leg Extension

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



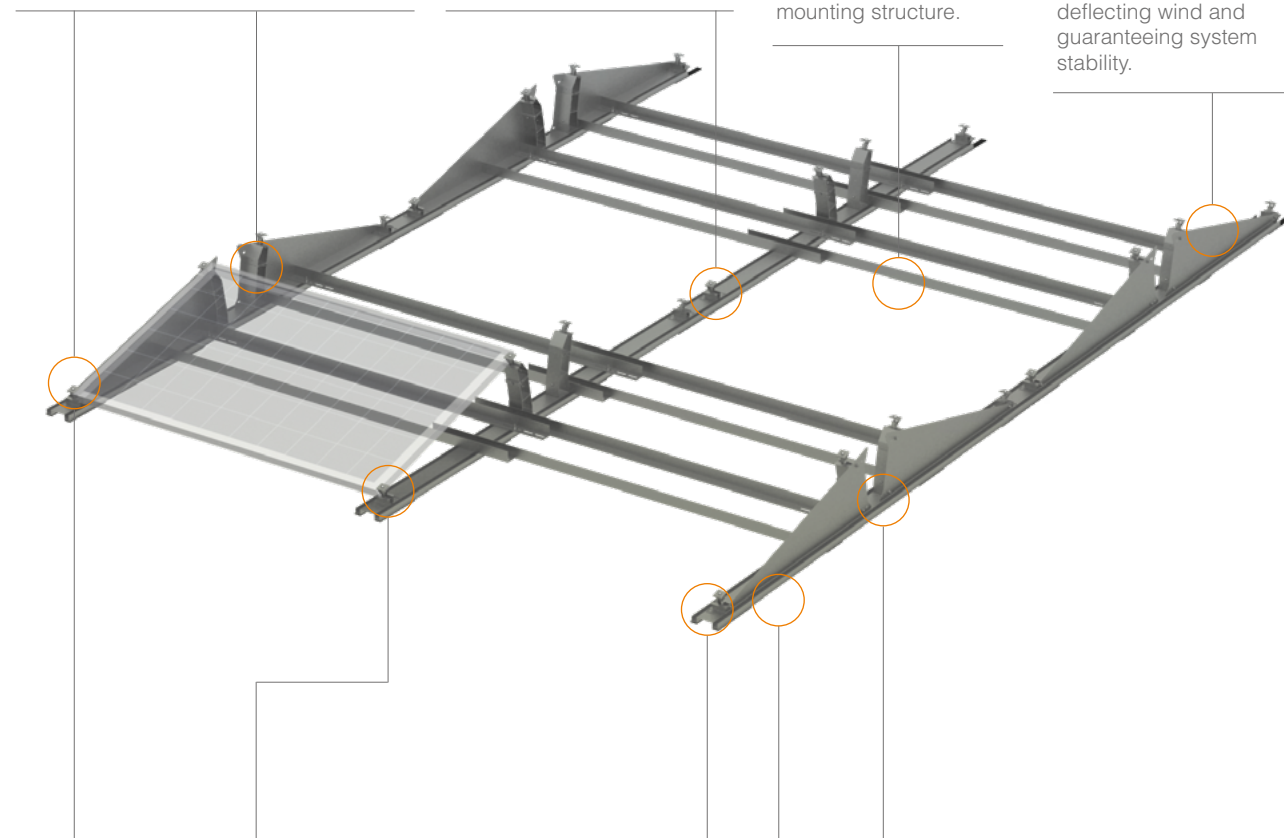
**ER-AA-50/XXXX/50**  
Angle AL

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



**SWD-AC**  
Side Wind Deflector

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

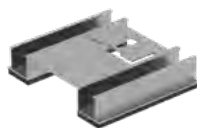


**EC-M**  
End Clamp



**IC-M**  
Inter Clamp

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



**SEB-AC/120**  
Start and End Base L120



**MB-AC/EW**  
Main Base, East-west



**CB-AC/EW**  
Connection Base, East-west

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

# PV-ezRack® ezShade Pergola

100% Waterproof PV Mounting System for Residential Projects

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

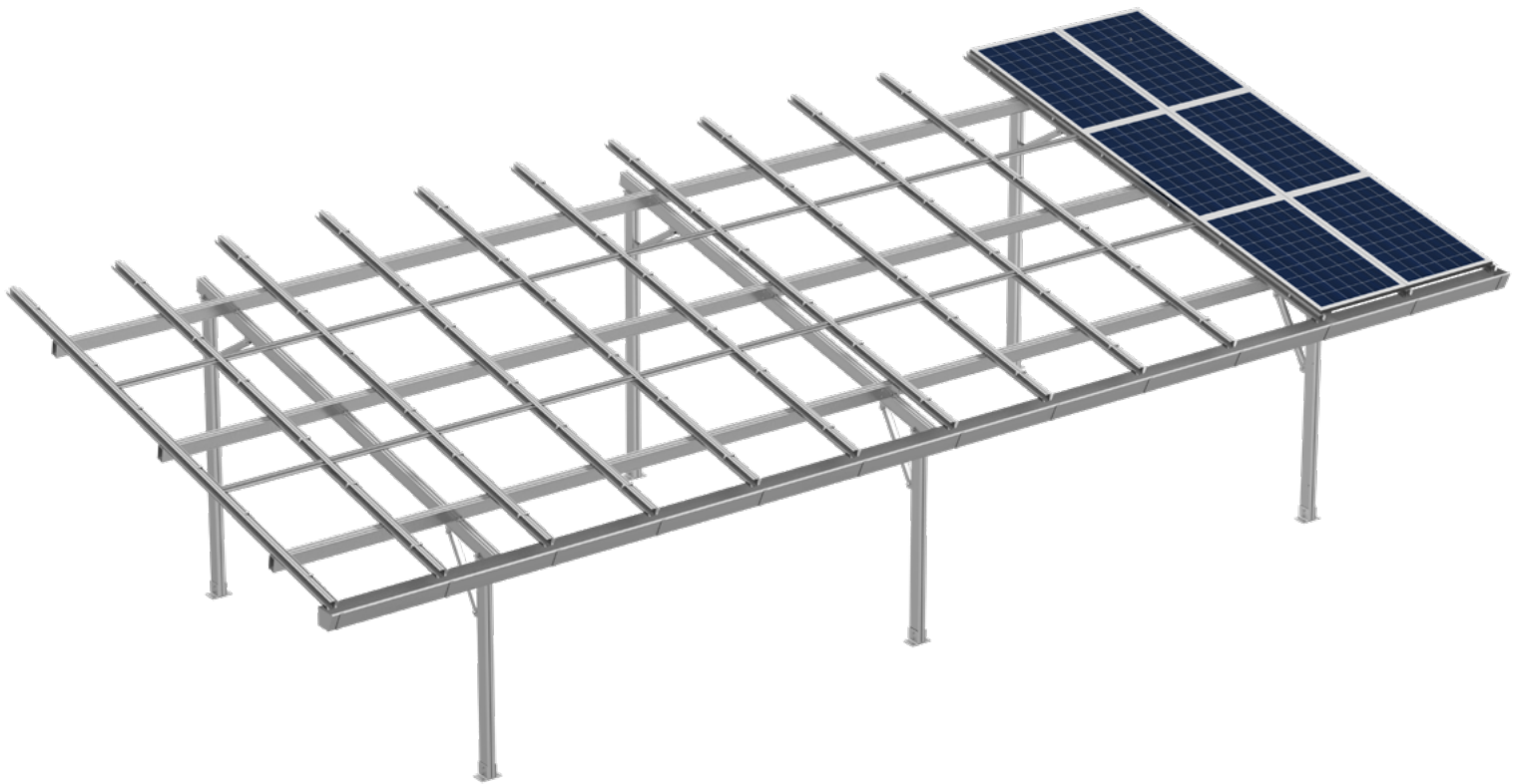
With the special water guide rails and Gutters install under the gap of PV modules, the system can have reliable waterproof function. Water will flow along the gap into the Gutters and water guide rails, finally into the ground.

### Excellent Corrosion Resistance

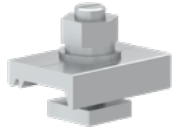
Manufactured from high quality aluminum and stainless steel with excellent corrosion resistance, PV-ezRack® ezShade Pergola offers a reliable and durable solution.

## Technical Details

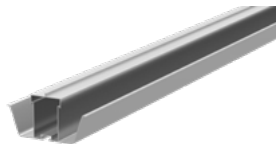
<b>Module Orientation</b>	Landscape or Portrait
<b>Module Type</b>	Framed
<b>Wind Load</b>	Customized
<b>Tilt Angle</b>	0-60°
<b>Foundation</b>	Concrete and Chemical Anchor
<b>Wind Load</b>	0.6KN/m <sup>2</sup> or customized
<b>Material</b>	Main Structure: AL6005-T5 Fasteners: SUS 304
<b>Standard</b>	GB50009-2012   GB 50797-2012   GB50352-2019   AS/NZS 1170   JIS C 8955



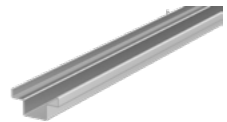
**MC-SDP**  
Module Clamp



**AC-SDP**  
Arcuated Clamp



**R-SDP/70**  
Rail 70



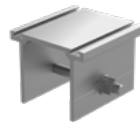
**GU-SDP**  
Gutter



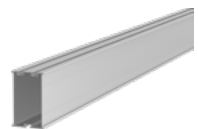
**RT-T-120**  
Rectangular Tube



**BA-SDP/130**  
T Base 130



**TJ-SDP/130**  
T Joint L 130



**G-SDP/120**  
Girder

# PV-ezRack® SolarTerrace I

Galvanized Steel Ground Mounting Solution for Large Scale Projects

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), this system ensures a robust, reliable and economic solution.



## Technical Details

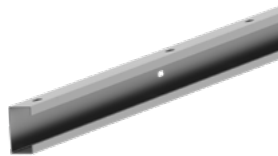
<b>Module Orientation</b>	Landscape or Portrait
<b>Wind Load</b>	Customized
<b>Tilt Angle</b>	Customized
<b>Foundation</b>	Ramming/Ground Screw/Concrete
<b>Material</b>	Main Structure: Galvanized Steel Fasteners: HDGS
<b>Standard</b>	AS NZS1170.2-2011   EN1991   JISC8955-2017   ASCE 7-10

## Main Benefits

- Price Advantage
- Three Foundation Solutions Available



**ER-EC-N & ER-IC-N**  
End Clamp, nut series & Inter  
Clamp, nut series



**ER-R-C80/40**  
C Steel 80\*40



**ER-SP-C40/80**  
Splice for C Steel 80\*40



**AS-40/40**  
Angle Steel 40\*40



**CO-TR/63/60**  
Tie Rod Connector



**B-100/63/200**  
L Base 100\*63



**AB-C60/100-2B**  
Angle Bracket for C-Steel



**ER-TR**  
Tie Rod



**GS-76/3.5/16-F1**  
Ground Screw

# PV-ezRack® SolarTerrace MAC

Magnesium Aluminum Zinc Coating Steel Ground Mounting Solution

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

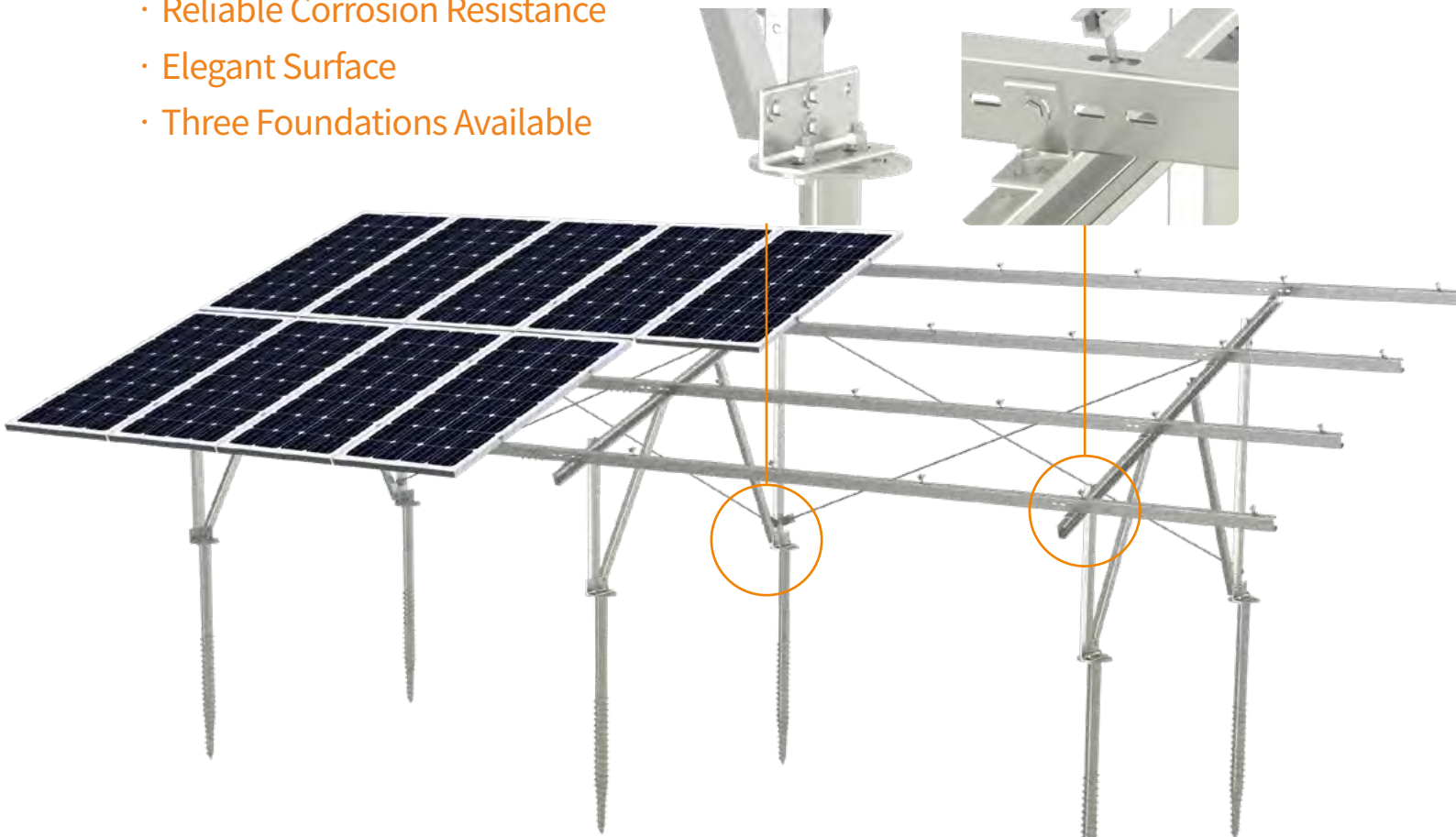


## Technical Details

<b>Module Orientation</b>	Portrait or Landscape
<b>Wind Load</b>	Customized
<b>Tilt Angle</b>	Customized
<b>Foundation</b>	Ramming/Ground Screw/Concrete
<b>Material</b>	Main Structure: Magnesium Aluminium Alloy Coating Steel Fasteners: HDGS
<b>Standard</b>	AS NZS1170.2-2011   EN1991   JISC8955-2017   ASCE 7-10

## Main Benefits

- Reliable Corrosion Resistance
- Elegant Surface
- Three Foundations Available



**ER-EC-N & ER-IC-N**

End Clamp with nuts & Inter  
Clamp with nuts



**R-C80/40-P**

Rail & Girder



**R-C60/40-P**

Support



**ER-TR-P**

Tie Rod



**GS-76/3.5/16-F1**

Ground Screw

# PV-ezRack® SolarTerrace Eco

Highly Pre-assembled Aluminum Ground Mounting System

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

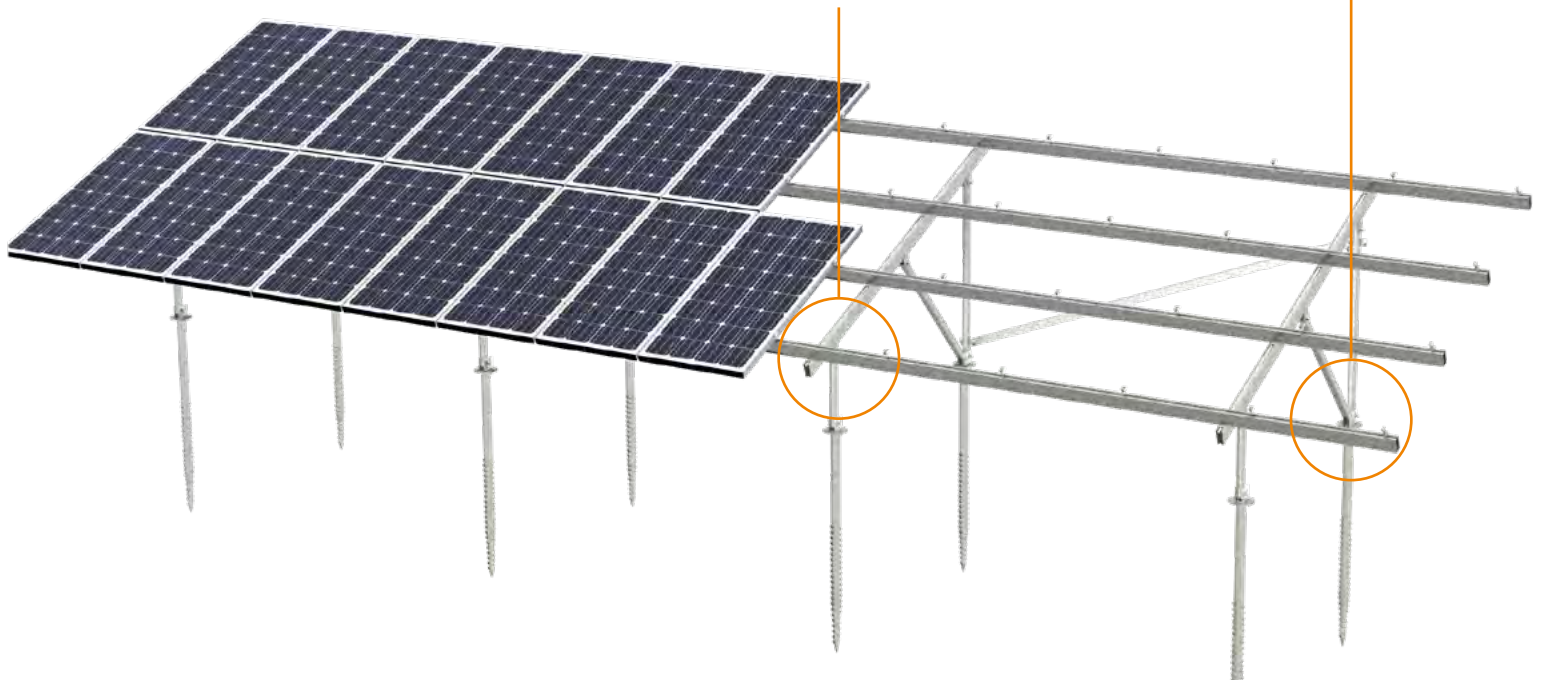


## Technical Details

<b>Module Orientation</b>	Landscape or Portrait
<b>Wind Load</b>	Customized
<b>Tilt Angle</b>	Customized
<b>Foundation</b>	Ground Screw   Concrete
<b>Material</b>	Main Structure: AL6005-T5 Fasteners: SUS 304
<b>Standard</b>	AS NZS1170.2-2011   EN1991   JISC8955-2017   ASCE 7-10

## Main Benefits

- Excellent Corrosion Resistance
- Easy and Fast Installation
- Versatility



**ICII-M & EC-M/OM**

Inter Clamp II, with M-module  
& End Clamp, with M-module



**ER-RCII-W**

Rail Clamp II



**BR-STEco/EW**

Adjustable East-west Bracket



**ER-R-TM**

TM Rail



**S-Eco/N**

N-shaped Support (pre-assembled)



**S-Eco/W**

W-shaped Support (pre-assembled)

# PV-ezRack® ezShade 2.0

Solar Parking Solution for Commercial and Residential Projects

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.



## Technical Details

<b>Module Orientation</b>	Landscape or Portrait
<b>Wind Load</b>	Customized
<b>Tilt Angle</b>	5 ° or 10 °
<b>Foundation</b>	Concrete
<b>Material</b>	Main Structure: AL6005-T5 Fasteners: SUS 304
<b>Standard</b>	AS NZS1170.2-2011   EN1991   JISC8955-2017   ASCE 7-10

## Main Benefits

- Easy Installation
- Waterproof
- Excellent Corrosion Resistance
- Customized Solution Available



# PV-ezRack® SolarFloating Pro

Water-based Floating System for PV Installations

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

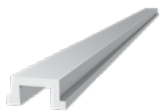
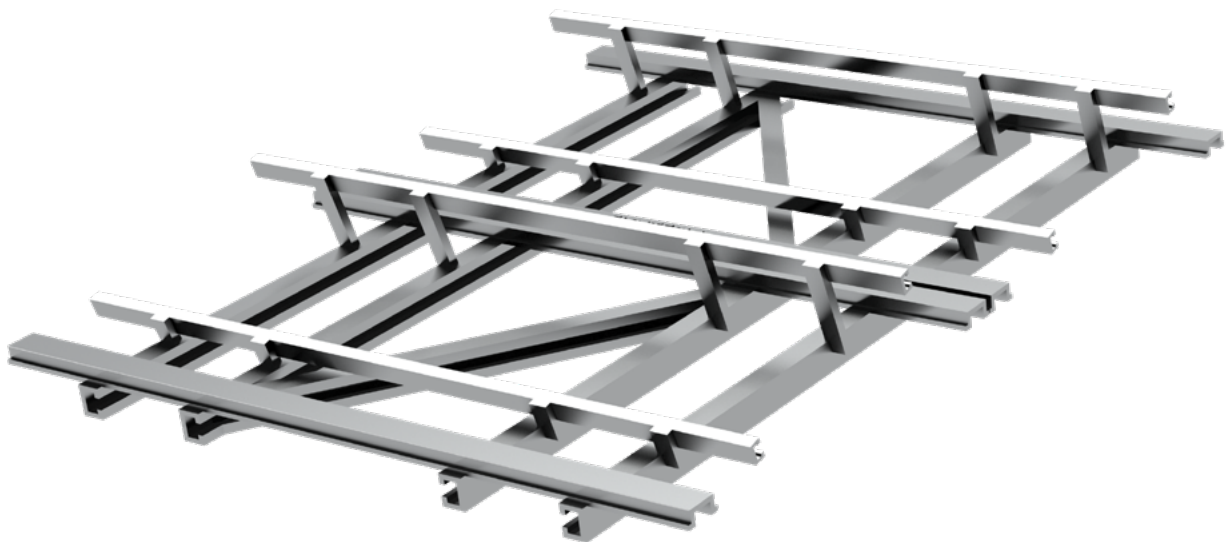
With the special design of a netlike supporting base, the system is stable and robust. Furthermore, the wind can easily spread from the top of the system.

### Easy Maintenance

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

## Technical Details

<b>Module Orientation</b>	Landscape and Portrait
<b>Wind Load</b>	Customized
<b>Tilt Angle</b>	Customized
<b>Material</b>	Support: Zn-Mg-Al Coating Steel Floater: HDPE Fasteners: HDGS or SUS304
<b>Standard</b>	AS NZS1170.2-2011   EN1991   JISC8955-2017   ASCE 7-10



**ER-R-U**  
U-Steel



**ER-R-C**  
C-Steel



**ER-SFP-F**  
HDPE Floater

# PV-ezRack® SolarFloating II

Water-based Floating System for PV Installations

PV-ezRack® SolarFloating II is a water-based floating system supporting solar panels suitable for numerous applications like lakes, ponds, pollution treatment plants, etc. Thanks to the patented structure design, the system can help to maximize energy output and has good performance against strong winds such as typhoons. The combination of high quality aluminum supports and HDPE floaters ensures the robust and durable solution.



## Technical Details

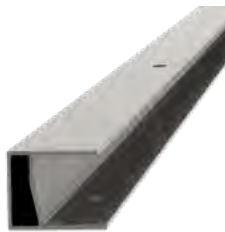
<b>Module Orientation</b>	Landscape
<b>Wind Load</b>	Customized
<b>Tilt Angle</b>	10 °~20 °
<b>Material</b>	Support: AL6005-T5 Floater: HDPE
<b>Standard</b>	AS NZS1170.2-2011   EN1991   JISC8955-2017   ASCE 7-10

## Main Benefits

- Maximum Energy Output
- Good Compatibility
- Excellent Wind Resistance
- Easy Maintenance



**ER-EC-FL/N**  
End Clamp



**R-SFII/LS**  
Rail



**S-SFII/S**  
Support, Single



**B-SFII/U**  
U-Shaped Base



**TU-SFII/60/60**  
Two-groove AL-Tube



**ER-AA**  
Angle AL

# PV-ezRack® PostMount Pivot 1.0

## Ground Mounting Solution for Large Scale Projects

PV-ezRack® PostMount Pivot 1.0 is a ground mounting system suitable for large-scale utility and commercial installations. It adapts manual or electric tool adjustment, which is developed to cater to customer requirements. Thanks to the system with no need of motors and electric control systems, PV-ezRack® PostMount Pivot 1.0 reduces the risk of operation and maintenance as compared to the tracking system. Furthermore, with a wide tilt range of 0~60° achieved with the change of season, the system generates more energy than fixed-tilt systems.

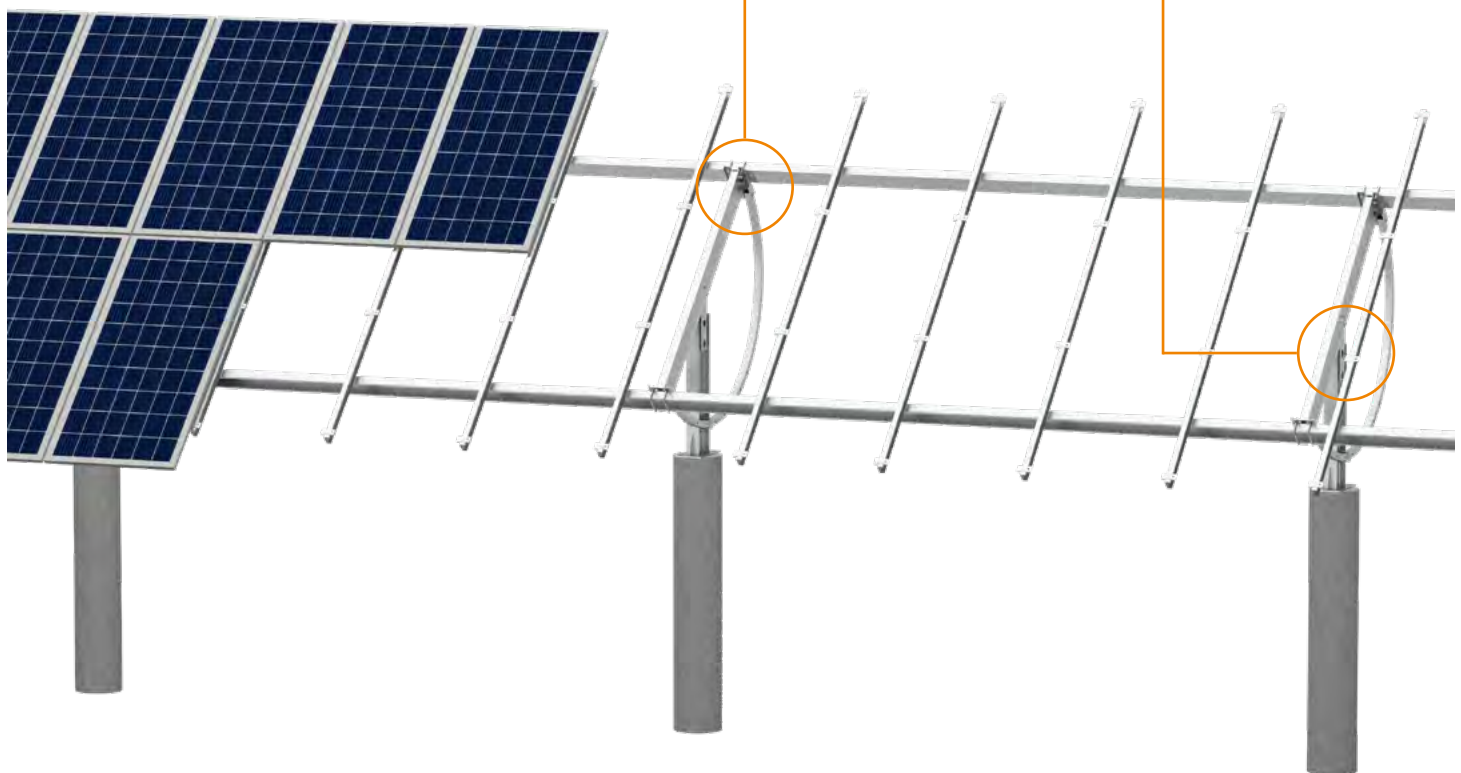
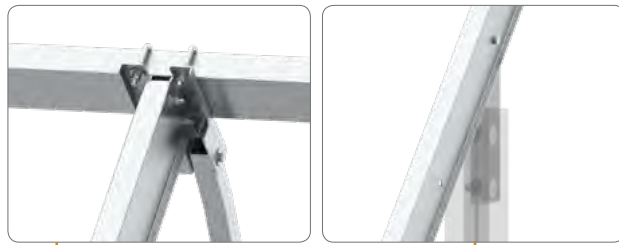


### Technical Details

<b>Module Orientation</b>	Portrait/Landscape
<b>Foundation</b>	PHC Pile/Concrete Base/Steel Pile
<b>Tilt Angle</b>	0°-60°
<b>Adjustable Accuracy</b>	±2°
<b>Corrosive Resistance</b>	Below C5 or Customized
<b>Wind Load</b>	0.6KN/m <sup>2</sup> or Customized
<b>Snow Load</b>	0.5KN/m <sup>2</sup> or Customized
<b>Material</b>	Hot-dip Galvanized Steel or Zn-Mg-Al Coating Steel
<b>Standard</b>	GB 50797
<b>Adjustable Tool</b>	Hand-wheel or Electric tools

## Main Benefits

- Easy Adjustment
- Excellent Corrosion Resistance
- Maximum Energy Output
- Excellent Compatibility



**R-C140/70**  
Beam for Steel



**DFG21OT11774-05**  
Bracket



**R-C70/40**  
Purlin for C Steel



**R-OM140/70/**  
**Girder**



**DFG21OT11774-06**  
Bracket for Arc Beam



**DFG21OT11774-02**  
H Post



**DFG21OT11774-01**  
Post Head for H Post



**DFG21OT11774-03**  
Arc Beam Support



**DFG21OT11774-04**  
Bracket for PV module

# EzTracker D Series

Horizontal Single-Axis Tracker with a Distributed System  
& 2 x Portrait or 1 x Portrait Layout

EzTracker D series Horizontal single-axis tracking system has the characteristics of high system stability, strong terrain adaptability, and easy maintenance. The system adopts the "astronomical algorithm + closed-loop control" method to realize the system automatically tracks the position of the sun and improves the overall power generation of the solar farm. Compared with the fixed-tilt rack, the power generation can be increased by up to 20%. And it can be increased by 25-30% with the combination of Bifacial PV Module.



TUV Certification



RWDI Wind Tunnel Test



WACKER Wind Tunnel Test



## Main Benefits

### Irregular Site Adaptability

With distributed actuation architecture, EzTracker D series can be flexibly used for hills and irregular terrains. While linked row systems need to pay attention to both north-south and east-west slopes, EzTracker D series offer complete freedom in east-west slope tolerance, and offer slope tolerance up to 10% to 20% to North-South direction, reducing the leveling work, and shortening the construction time.

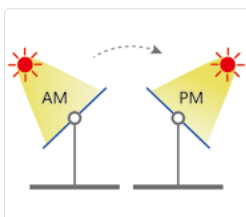
### Multiple Configurations Available

EzTracker D series have a variety of optional configurations, allowing for choosing the best combination for each project. The power supply mode can be AC Grid Power Supply or DC Self-Power Supply; Communication mode can be cable RS485 communication or wireless Zigbee communication. Drive mode can be Slew drive or linear drive.

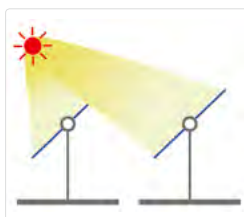
### Easy Maintenance

Clenergy designs EzTracker D series for easy maintenance in line with the principle of customer-orientation, with lubrication-free bearing, daily tracking calibration, a mobile app for commissioning, etc.

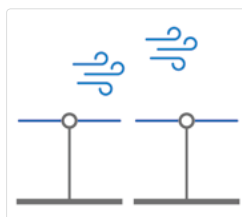
## Work Mode



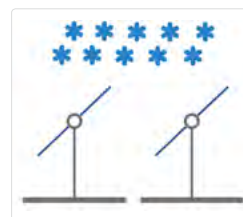
Standard Tracking Mode



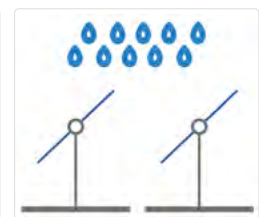
BackTracking Mode



Wind Protection Mode



Snow & Hail Protection Mode



Rain Cleaning Mode

## D1P Technical Details

### PV-Modules

<b>PV-Modules supported</b>	Fully compatible with 180-210 silicon wafers' PV-Module-600W*
-----------------------------	---

### Structure

<b>Type</b>	Horizontal single-axis tracker
<b>Maximum capacity per row</b>	≤49kWp (Estimated with 545W PV-Modules)
<b>PV-Modules quantity per row</b>	90 PCS (1x90)
<b>Tracking range</b>	±60°(120°)
<b>Tracking accuracy</b>	≤2°
<b>Structural materials</b>	HDG Steel, Al-Mg-Zn Coating Steel
<b>Foundation</b>	Steel pile, PHC pile, Concrete foundation
<b>Quantity of foundation/MW</b>	Normally about 250 PCS/MW (Estimated with 545W PV-Modules)

### Electrical

<b>Motor type</b>	24V DC Motor
<b>Motor quantity</b>	1 motor per row
<b>Drive method</b>	Slew drive
<b>Solar tracking method</b>	Astronomical algorithm + closed-loop control
<b>Control system</b>	MCU
<b>Data feed</b>	Modbus over RS485
<b>Signal transmission</b>	Wire or wireless (Zigbee)
<b>Backtracking</b>	Yes
<b>Manual operation</b>	Yes
<b>Power supply</b>	Self-powered or grid-powered
<b>Commission</b>	By mobile phone App
<b>1000V System or 1500V System</b>	Both available

### Protection Function

<b>Night stow mode</b>	Yes
<b>Overheat prevention</b>	Yes
<b>Overload prevention</b>	Yes
<b>Troubleshooting available</b>	Yes (Driving abnormally > Self-diagnostics)

### Environment

<b>Wind load</b>	Customisable according to local condition
<b>Operating temperature</b>	-30°C to +60°C

### Civil and Installation

<b>Slope tolerance</b>	North-south 10%~20%, East-west no limits
<b>Special tools</b>	Not required

### Other

<b>System design standard</b>	GBT29320-2012, IEC 62817
<b>Load design standard</b>	GB 50009, ASCE 7-05, ASCE 7-10 (According to project)

## Application Range



Mountainous Area



Desert Area



Agriculture+PV Project



Fishery+PV Project

## D2P Technical Details

### PV-Modules

PV-Modules supported	Fully compatible with 180-210 silicon wafers' PV-Module-600W*
----------------------	---

### Structure

Type	Horizontal single-axis tracker
Maximum capacity per row	≤65kWp (Estimated with 545W PV-Modules)
PV-Modules quantity per row	2x45 (Extendable to 2X60)
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 170 PCS/MW (Estimated with 545W PV-Modules)

### Electrical

Motor type	24V DC Motor
Motor quantity	2 motors per row
Drive method	Slew 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
Overload 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	North-south 10%, East-west no limits
Special tools	Not required

### Other

System design standard	GBT29320-2012, IEC 62817
Load design standard	GB 50009, ASCE 7-05, ASCE 7-10 (According to project)

## Test



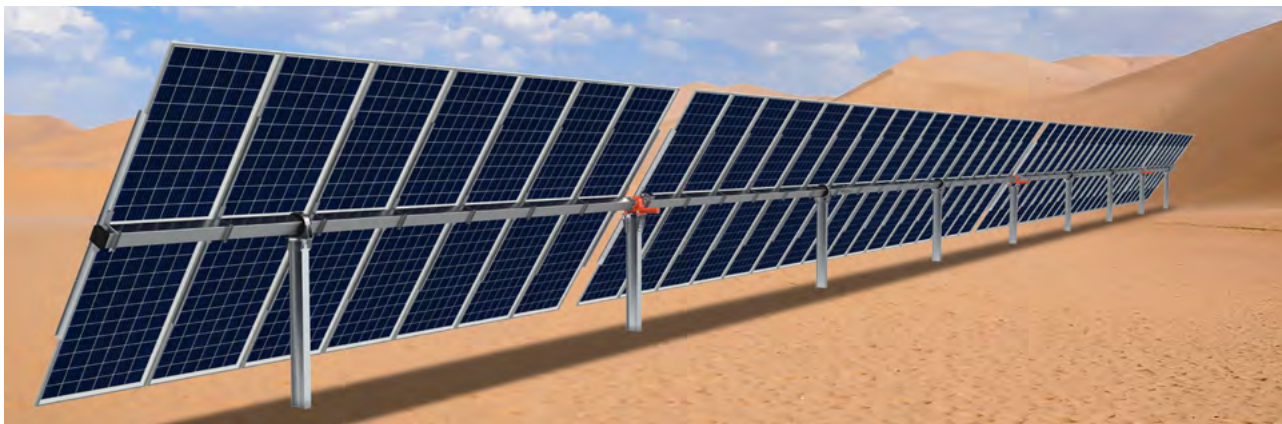
Wind Tunnel Test



Mechanical Accelerated Test

# EzTracker D2P Pro

Newest Generation 2 x Portrait Smart Solar Tracking System



EzTracker D2P Pro is characterized by high system stability throughout the life cycle, maximizing the energy output for solar plants. Thanks to the patented multi-drive design, the system can still maintain excellent aeroelastic stability in extreme weather without dampers. Furthermore, EzTracker D2P Pro can be flexibly used for sites with challenging soils, high winds, and irregular terrains. This system delivers a perfect solution for "Agriculture+PV" and "Fishery+PV" projects.

## Higher Power Density

With flexible 2P module configuration, EzTracker D2P Pro requires only nine posts to support up to 120 modules with 4x1,500V-strings.

## Lower Construction Costs

Thanks to the innovative multi-drive design, no complicated transmission mechanism is required during installation and debugging. EzTracker D2P Pro also requires fewer parts, fasteners, and foundations for one single solar tracker per megawatt, which allows for significant savings of labor costs and shorter construction time even on challenging sites.

## Higher Generation Performance

EzTracker D2P Pro is compatible with monofacial or bifacial PV modules up to 600W\*. And it is integrated with the advanced AI control and energy yield enhancement platform.

## Better Quality & Reliability

Quality and reliability are taken into account for the design and testing of every component and system across our supply chain and manufacturing operations. Optimized based on dynamic wind analyses, EzTracker ensures uptime and long-term durability.

## Features and Benefits

### Industry-leading

Multi-drive system for maximum aeroelastic stability

### Bifacial-suited

Maximum energy output, with power generation increased up to **30%**

### Advanced Smart Control

Energy yield enhancement platform

### Flexible Adaptability

Up to **20%** N-S slope tolerance, with flexible layout for irregular terrains



## PV-Modules

<b>PV-Modules supported</b>	Fully compatible with 180-210 silicon wafers' PV-Module- 600W*
-----------------------------	--

## Structure

<b>Type</b>	Horizontal single-axis, independent row
<b>Maximum capacity per row</b>	≤65kWp (Estimated with 545W PV-Modules)
<b>PV-Module quantity per row</b>	Up to 120 modules, depending on module string length
<b>Bifacial features</b>	Available with optimized central torque tube gap
<b>PV-Module configuration</b>	2 in portrait 4 x 1,500 strings per standard tracker
<b>PV-Module attachment</b>	Self-grounding and electrical tool-actuated
<b>Tracking range</b>	±60°(120°)
<b>Tracking accuracy</b>	≤2°
<b>Ground coverage ratio (GCR)</b>	30% to 50%
<b>Structural materials</b>	HDG steel
<b>Foundation</b>	Steel pile/PHC pile/Concrete foundation
<b>Quantity of foundation/MW</b>	Normally about 135 PCS/MW (Standard W8 section foundation posts)

## Electrical

<b>Motor type</b>	24V DC motor
<b>Drive method</b>	Patented multi-drive
<b>Solar tracking method</b>	Astronomical algorithm + closed-loop control integrated AI control tracking algorithm
<b>Signal transmission</b>	Wire (RS485) or wireless (Zigbee)
<b>Backtracking</b>	Yes
<b>Power supply</b>	Option1: Array powered, integrated backup battery Option2: AC powered, customer-provided AC circuit

## Protection function

<b>Night stow mode</b>	Yes
<b>Wind protection</b>	Intelligent wind stowing with self-locking Multi-drive system for maximum array stability in all wind conditions

## Environment

<b>Wind load</b>	Customisable according to local condition
<b>Operating temperature</b>	Array powered: -20°C to 60°C AC powered: -30°C to 60°C

## Civil and Installation

<b>Slope tolerance</b>	North-south up to 20%, East-west with no limits
<b>Special tools</b>	Not required

## Other

<b>Onsite training &amp; commissioning</b>	Yes
<b>Codes and standards</b>	UL 3703   UL 2703   IEC 62817
<b>Warranty</b>	10 years for main structure 5 years for drive and control components



China

**100MW**  
SolarRoof



China

**36MW**  
SolarRoof



Australia

**1.2MW**  
SolarRoof



Philippines

**4.77MW**  
SolarRoof



UK

**3.8MW**  
Trapezoidal



Thailand

**3.3MW**  
SolarRoof



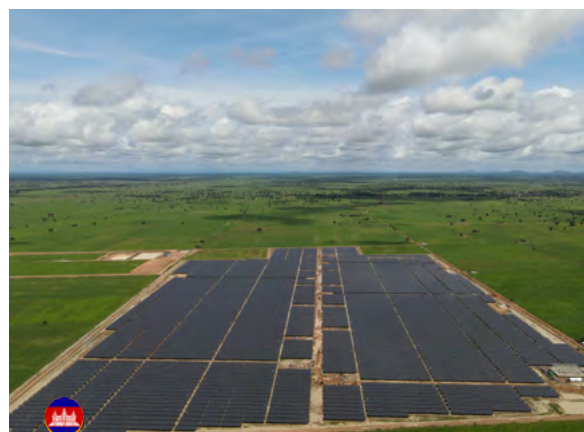
Vietnam **138MW**  
SolarTerrace I



Vietnam **100MW**  
SolarTerrace I



Vietnam **80MW**  
SolarTerrace Eco



Cambodia **39MW**  
SolarTerrace Eco



Japan **52MW**  
SolarTerrace V



Japan **51MW**  
SolarTerrace II-A



Philippines **60MW**  
SolarTerrace I



Philippines **20MW**  
SolarTerrace I



US **38.7MW**  
SolarTerrace II-A



South Korea **9MW**  
SolarTerrace Eco



Thailand **8MW**  
SolarTerrace I



Thailand **8MW**  
SolarTerrace I



China

**60MW**  
SolarTerrace I



China

**52MW**  
SolarTerrace I



China

**50MW**  
Customized Solution



China

**293MW**  
EzTracker



China

**55MW**  
EzTracker



Vietnam

**50MW**  
EzTracker

### Clenergy Australia

1/10 Duerdin Street, Clayton VIC 3168 Australia  
Tel: +61 3 9239 8088 Fax: +61 3 9239 8024  
E-mail: [sales@clenergy.com.au](mailto:sales@clenergy.com.au)  
[www.clenergy.com.au](http://www.clenergy.com.au)

### Clenergy China

999-1009 Min'an Rd, Huoju Hi-tech Ind. Dev. Zone  
Xiang'an District 361101, Xiamen, Fujian, China  
Tel: +86 592 311 0088 Fax: +86 592 599 5028  
E-mail: [sales@clenergy.com.cn](mailto:sales@clenergy.com.cn)  
[www.clenergy.com.cn](http://www.clenergy.com.cn)

### Clenergy EMEA

Esplanade 41, 20354 Hamburg, Germany  
Tel: +49 (0) 40 3562 389 00  
E-mail: [sales.emea@clenergy.com](mailto:sales.emea@clenergy.com)

### Clenergy Japan

Nittochi Yamashita Building 5th Floor  
23 Yamashita-cho, Yokohama, 231-0023 Japan  
Tel: +81 45 228 8226 Fax: +81 45 228 8316  
E-mail: [sales@clenergy.co.jp](mailto:sales@clenergy.co.jp)  
[www.clenergy.jp](http://www.clenergy.jp)

### Clenergy Philippines

145 Yakal St., San Antonio village, Makati City, Philippines  
Tel: +63 977 8407240  
E-mail: [sales\\_ph@clenergy.com](mailto:sales_ph@clenergy.com)  
[www.clenergy.ph](http://www.clenergy.ph)

### Clenergy Thailand

9/2, 5th Floor, Vorasin Building, Soi Yasoob 2, Viphavadee-Rungsit Road, Chomphon Sub-district, Chatuchak District, Bangkok 10900  
Tel: +66 (0) 2 277 5201, +66 (0) 6 3228-0200  
E-mail: [sales\\_th@clenergy.com](mailto:sales_th@clenergy.com), [support\\_th@clenergy.com](mailto:support_th@clenergy.com)  
[www.clenergythailand.com](http://www.clenergythailand.com)

### Clenergy Singapore

24 Raffles Place #28-01 Clifford Centre Singapore 048621  
Tel: +65 9873 8286  
E-mail: [vincent.chan@clenergy.com](mailto:vincent.chan@clenergy.com)

### Clenergy Malaysia

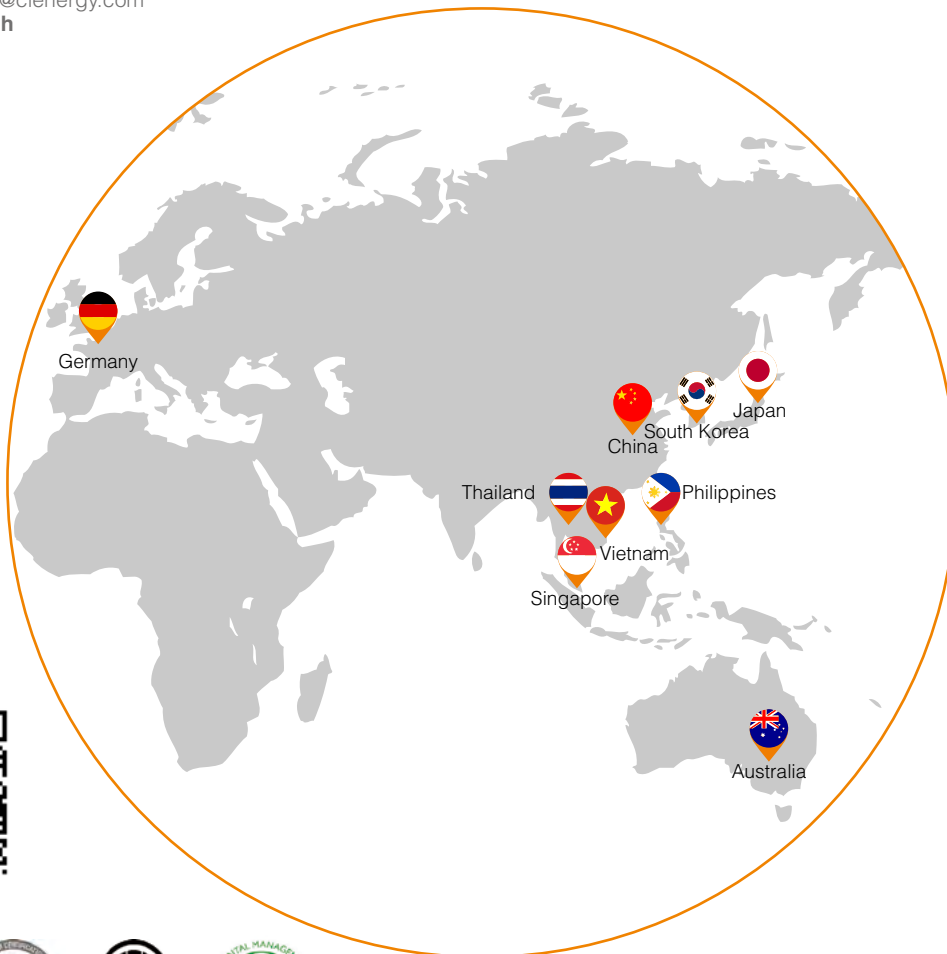
Tel: +86 18750231005  
E-mail: [sales\\_em@clenergy.com](mailto:sales_em@clenergy.com)

### Clenergy Vietnam

Tel: +65 9873 8286  
E-mail: [sales\\_vietnam@clenergy.com](mailto:sales_vietnam@clenergy.com)

### Clenergy Korea

Tel: +65 9873 8286  
E-mail: [sales.kr@clenergy.com](mailto:sales.kr@clenergy.com)



More Products



Clenergy Product Catalogue - 202105