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10 Year  
Warranty\*

Clenergy PV-ezRack SolarMatrix brochure 201803

**Clenergy**  
Innovating renewable energy

# PV-ezRack SolarMatrix

Ballasted flat roof system with maximum roof utilisation ratio



Installed by Autonomous Energy





# PV-ezRack SolarMatrix

Clenergy PV-ezRack SolarMatrix is a non-penetrative mounting system for commercial concrete flat roof installations. Through its flexible and scalable design it enables perfect utilisation of roof surface available. The tilt angles range from 5° to 20° with the panels positioned in landscape orientation. A combination of high quality aluminium and stainless steel components make for a robust, reliable system with excellent corrosion resistance.

## Main Benefits

### No roof penetration

Using ballast trays with mostly concrete ballast blocks, SolarMatrix is held securely in place without the need for roof penetration, ensuring that watertightness of the building remains intact.

### Maximum roof utilisation ratio

SolarMatrix allows maximum flexibility. Even the smallest roof section can be used for generating power and the modular design allows for easy layout customisation.

### Good corrosion resistance

The panels are mounted on stainless steel front and back legs, secured on the anodised aluminium base MT-Rails with our Diamond Modules.

### Quick and easy installation

A modular design and Diamond Module connection provide a quick, easy and safe installation method. Through its design, the Diamond Module safely clicks into its required position when turned inside of the MT-rail. They can be inserted into the rail at any given point, and secured with just three hand grips.

10 Year  
Warranty\*

Commercial

Residential

ER-CT-SM

### Ballast tray

To achieve maximal corrosion resistance, the ballast tray is completely manufactured out of aluminium and is secured to the MT-Rail with the Diamond Modules.

ER-R-MT

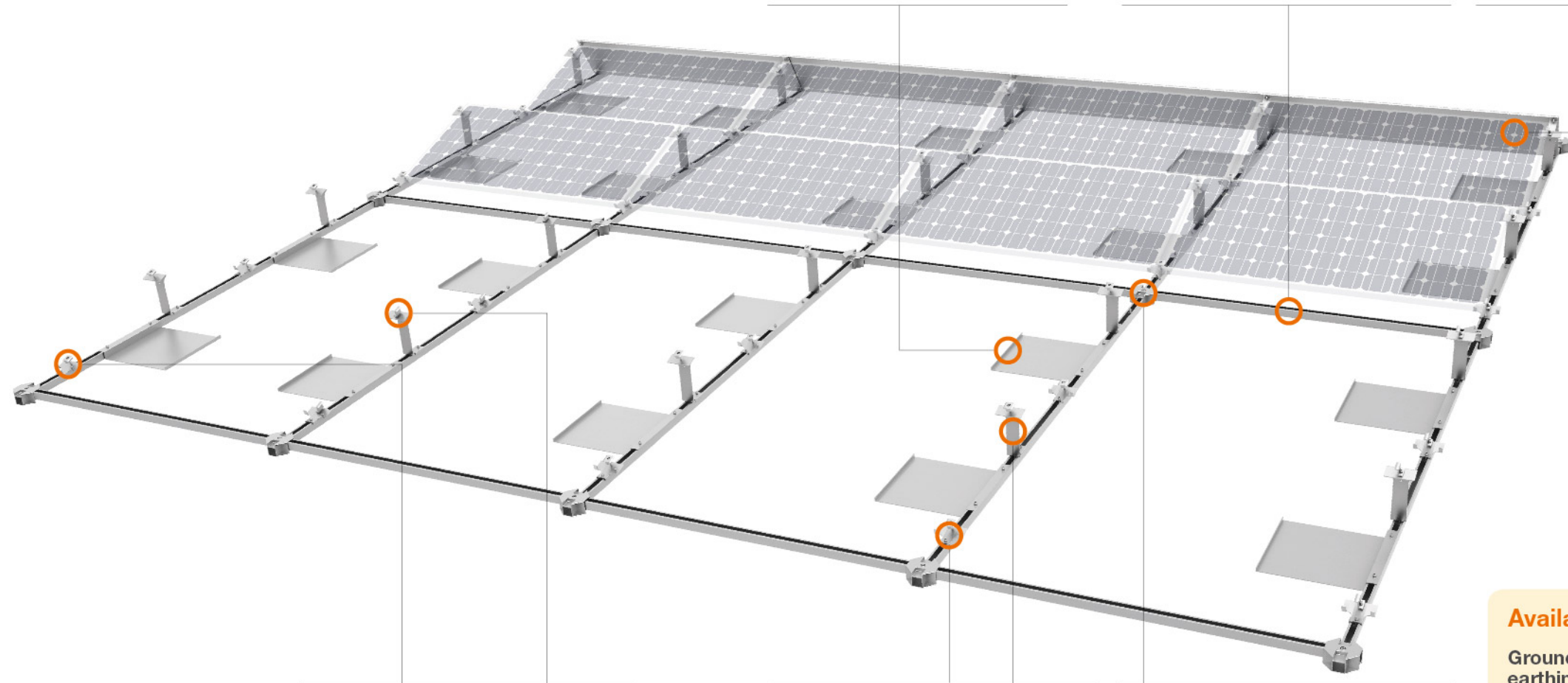
### MT-rail

The Matrix base rail length is customised according to the required panel size and tilt to achieve optimal roof surface utilisation.

ER-WD-SM

### Wind deflector

The wind deflector provides the wind shield which reduces the uplift forces and required ballast. This is the only component which uses power coated steel.



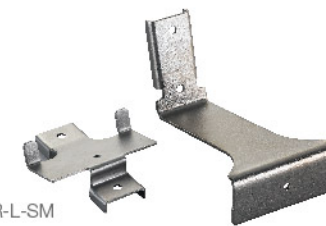
ER-IC-ST



ER-EC-ST

### Inter and End clamps

Using the patented Clenergy Z-module, PV-ezRack Inter and End clamps offer a simple, easy to use and robust fixing of PV panels of any size. Compatible clamps for thin film modules are also available.



ER-L-SM

### Front and Back leg

The sandblasted stainless steel front and back legs connect to the MT-Rail using the Diamond Modules. PV-ezRack mid and end clamps fix to the top of legs securing the panels.



ER-RC-SM

### Rail cross connector

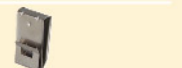
This component connects the MT-rails, creating the interconnected solar matrix. The design vertically offsets the perpendicular MT-rails providing a gap between roof and base rail to allow for unhindered water flow.

## Available accessories

Grounding/  
earthing



Cable clips



## Materials

AL6005-T5 | SUS304 | AL1100 |  
ADC 12 | Powder coated steel

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