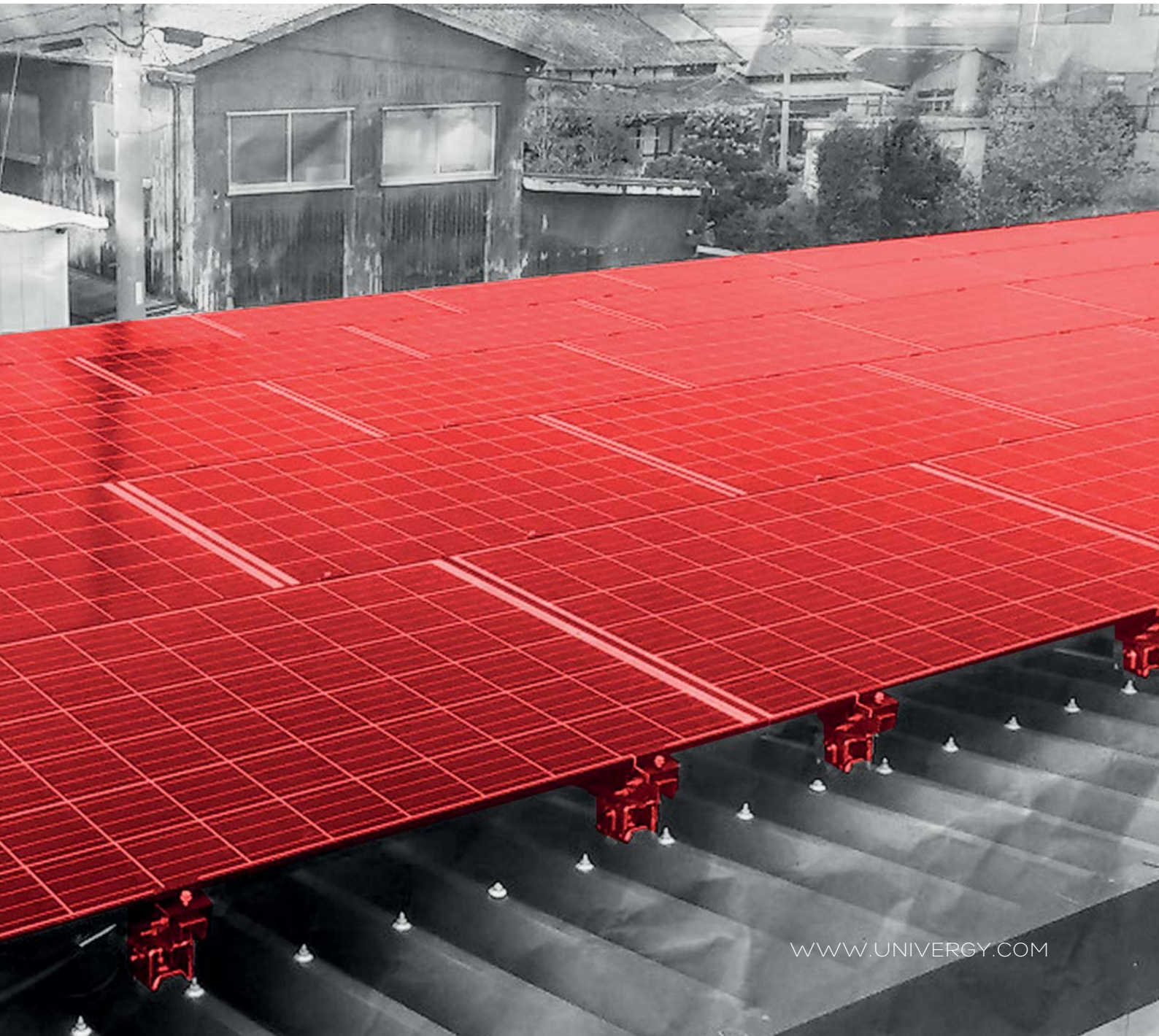


# ROOFTOP PHOTOVOLTAIC INSTALLATION



# ROOFTOP PHOTOVOLTAIC INSTALLATION

## WHAT DOES IT CONSIST OF?

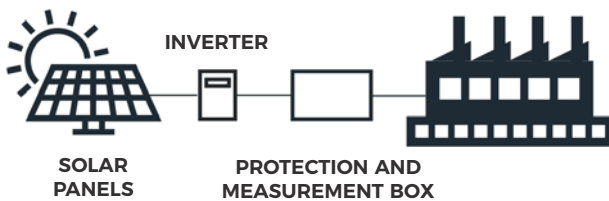
A rooftop photovoltaic power station, or rooftop PV system, is a photovoltaic system which is mounted on the rooftop of a residential, industrial or commercial building or structure. Its main objective is to generate electricity, either for the client's own

consumption or to benefit from a "net-metering" plan that allows the connection to the power grid in order to sell the produced energy. In any case, it is intended to generate savings in the customer's electric bills.

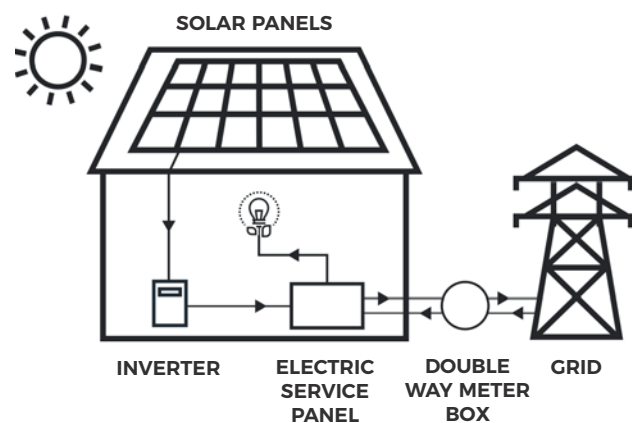
## ADVANTAGES AND SAVINGS

- Reducing CO<sub>2</sub> emissions
- Temperature reduction between 4-10 °C in the building
- Quick and professional installation and commissioning
- Several configurations depending on client requirements
- Design according to ubication and conditions
- Flexibility based on rooftop features
- Top-brands technology: Canadian Solar, Trina, Jinko, Huawei, Sungrow, etc
- Different possibilities of energy generation for self consumption, balance or direct injection to grid

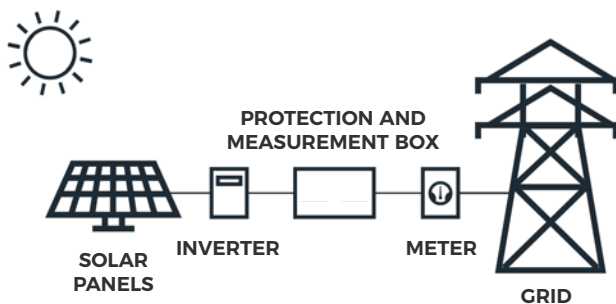
### > SELF-CONSUMPTION



### > NET BALANCE



### > DIRECT INJECTION TO GRID





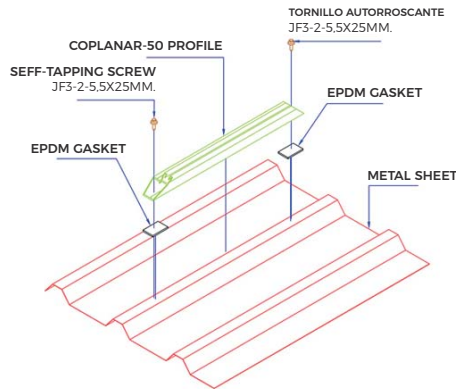
# INSTALLATION TYPES

## COPLANAR

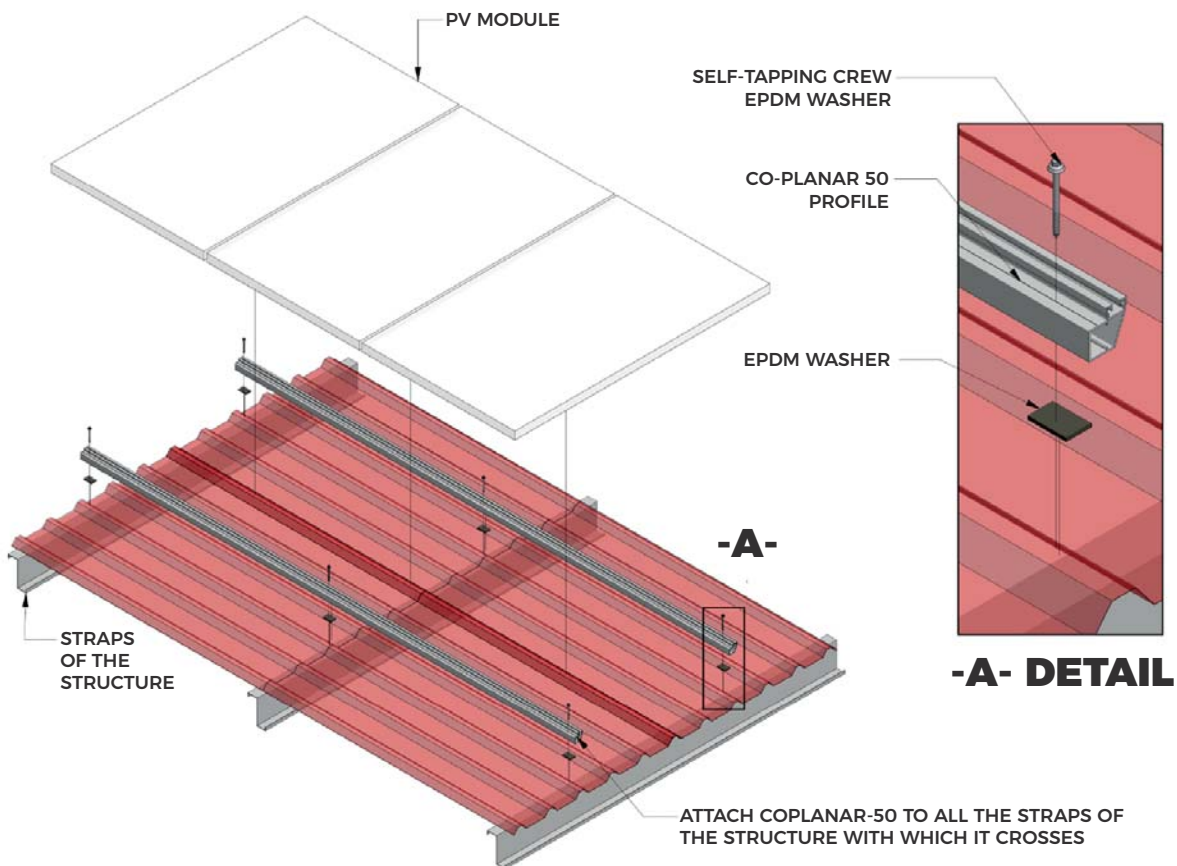
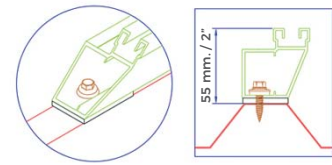
Structure adapted to the inclination and orientation of the cover itself.



### > MOUNTING PROCESS



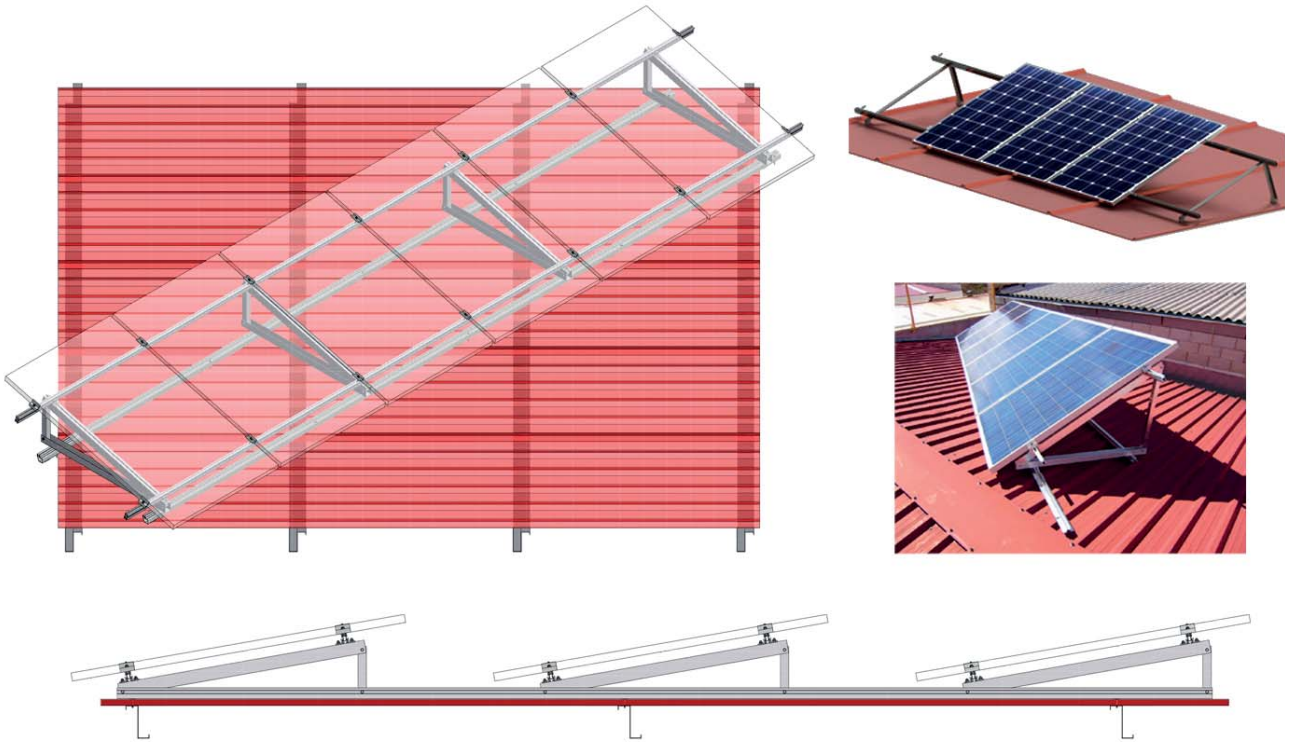
### > VIEW OF FIXED STRUCTURE



## INSTALLATION TYPES

### ORIENTED

Structure prepared to tilt and orient the modules according to situation in the optimum position.



### WITHOUT DRILLING

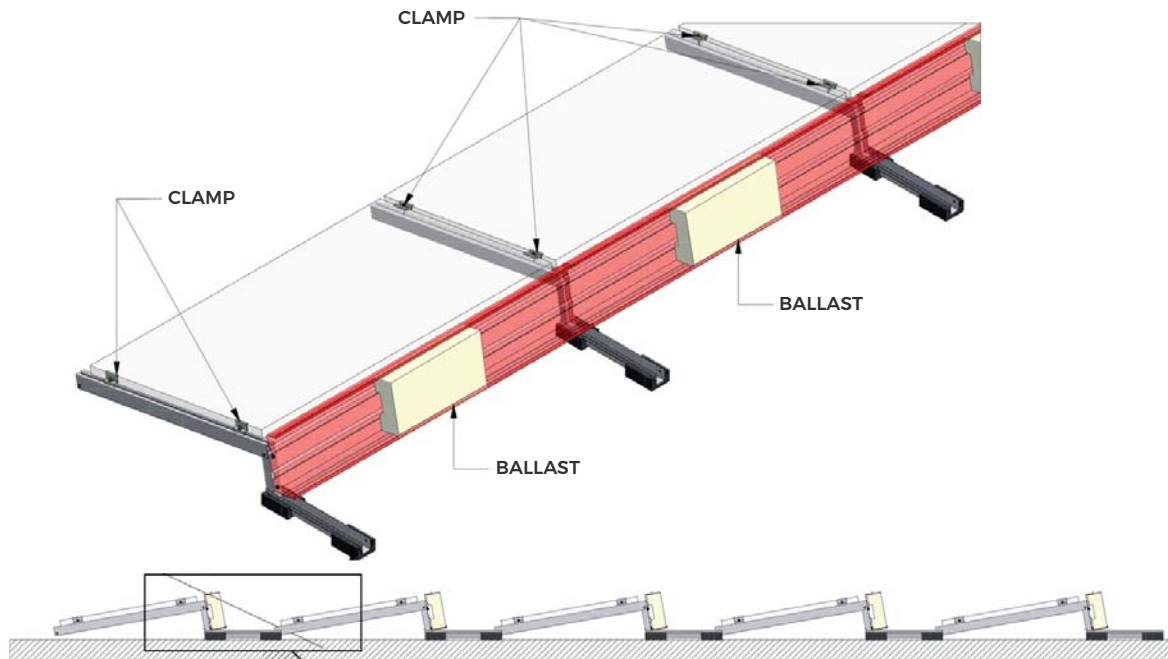
Sheet metal cover in L.



## INSTALLATION TYPES

### WITHOUT DRILLING

With ballast.



## INSTALLATION CHARACTERISTICS

PEAK POWER 100 kWp	COPLANAR	ORIENTED	WITHOUT DRILLING (Sheet metal cover in L)	WITHOUT DRILLING (With ballast)
WIND LOAD	240 Km/h			
SNOW LOAD	2KN/m <sup>2</sup>			
WEIGHT	12-15 Kg/m <sup>2</sup>	14-18 Kg/m <sup>2</sup>	12-14 Kg/m <sup>2</sup>	18-25 Kg/m <sup>2</sup>
MIN. SURFACE REQUIRED	700-720 m <sup>2</sup>	1.070-1.050 m <sup>2</sup>	700-720 m <sup>2</sup>	1.070-1.050 m <sup>2</sup>
OCCUPATION	80 - 90%	50 - 60%	80 - 90%	50 - 60%
MÁX. INSTANT POWER	80 kW			
OUTPUT VOLTAGE	230v / 380v / 400v			
ESTIMATED ANUAL PROD.*	97-160 MWh/year	102-160 MWh/year	97-160 MWh/year	102-160 MWh/year
SAVING OF CO <sub>2</sub> **	40-66TnCO <sub>2</sub> eq	42-66 TnCO <sub>2</sub> eq	40-66TnCO <sub>2</sub> eq	42-66 TnCO <sub>2</sub> eq

\* Production will depend on the latitude of the area. / \*\* The saving of CO2 depends on the energy mix of the country.



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