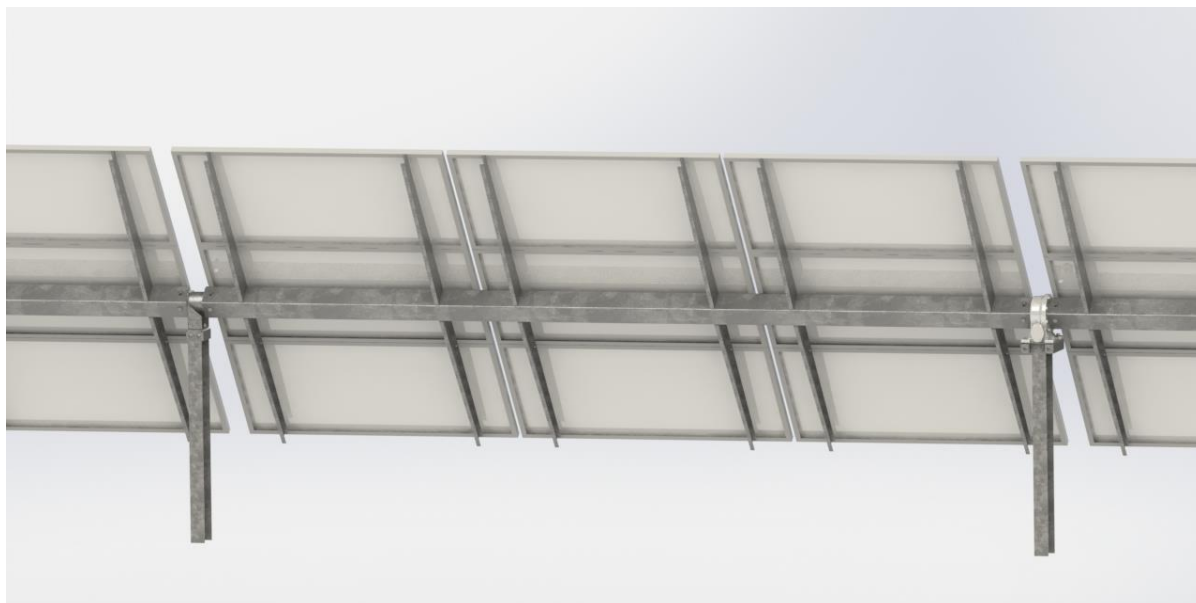


PVHT 2106 is a fully integrated 210,6 m² aperture photovoltaic single axis horizontal tracker, including 108 REC 315PE72 modules, with a total of 34 kWp, and an ABB PRO 33 three-phase inverter.



Main characteristics

- Pole mounted single axis tracker using maintenance free bearings and slew actuator. Reliable and low power consumption brushless stepper motors.
- Continuous astronomical tracking control system for increased reliability and reduced consumption. Backtracking option.
- 12 segments of 9 modules per segment, each segment based on a structural square steel tube.
- 6 strings of 18 modules per string.
- Using 16% efficiency 72 cell REC Solar photovoltaic modules mounted in landscape arrangement, favoring proper actuation of bypass diodes when backtracking option is avoided.
- Integrated 98% efficient ABB PRO 33 three-phase inverter with individual string monitoring. RS485/Modbus communications.
- Tracking structure optimized for REC PV modules. Main assembly steps consist in riveting components together (wings to central square tubes and modules to wings), speeding up system installation.
- No welding or trimming of components required.

PVHT 2106 Specifications

Solar aperture:	210,6 m ²
PV cells:	156 mm square, poly-crystalline
Cells per module:	72
Modules per system:	108
Tilting span:	-60/+60 degrees

DC Performance (using REC 315PE72)

	STC (T _{cell} 25 C / GNI 1000 W/m ²)	NOC (T _{cell} 70 C / GNI 800 W/m ²)
I _{sc} :	54,54 A	43,86 A
V _{oc} :	819 V	772 V
I _{mpp} :	51,72 A	41,16 A
V _{mpp} :	662 V	625 V
P _{mpp} :	34.020 W	25.704 W
Efficiency:	16,1 %	15,2 %

AC Performance (using ABB PRO 33)

Max. output power:	33.000 W
EU Efficiency:	98 %
Rated voltage:	400 V, three phase, 50/60 Hz

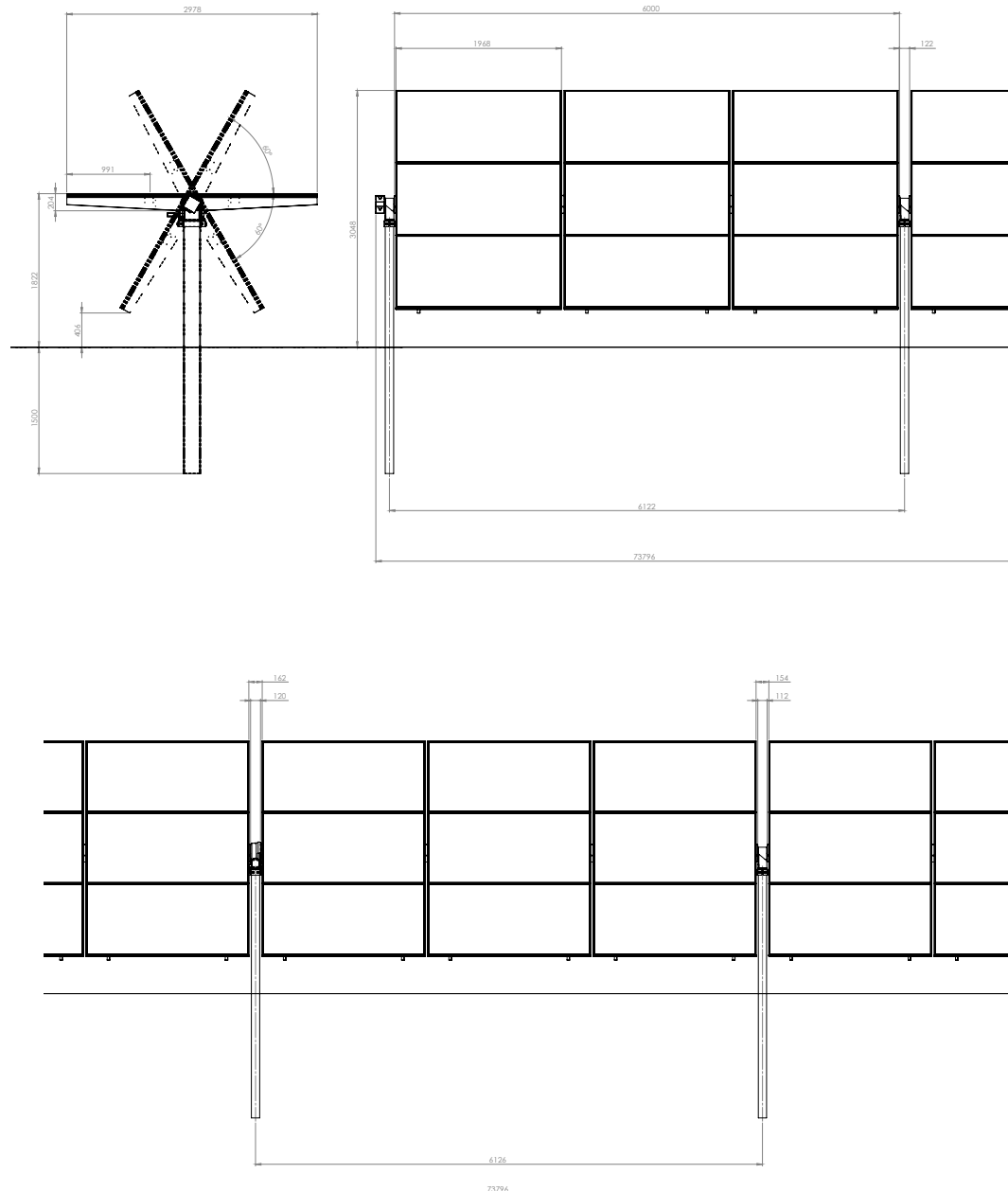
Dimensions

Length:	73.796 mm
Width:	2.978 mm
Height:	3.048 mm
Weight:	5.485,88 kg

Land requirements

	Minimum	Typical
Footprint:	309 m ²	441 m ²
Power density:	110 W/m ²	77 W/m ²
1 MW plant size:	0,91 Ha	1,29 Ha

Drawings



PVHT 2106 is based on proprietary patent pending technology.
 This is a preliminary brochure. Its contents are pending full verification.