debasol
SOLAR POWER

Solar TRACKER

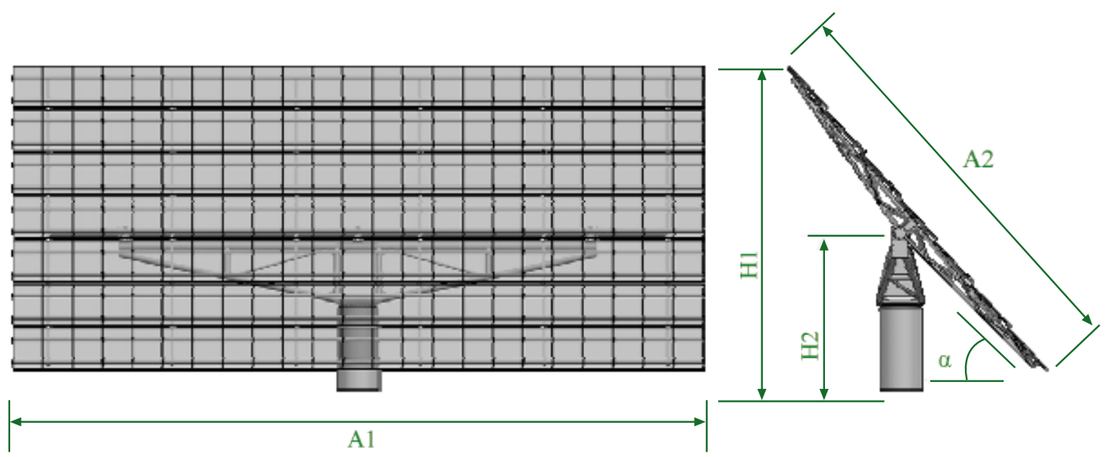
Dual Axis/240 m2
Suntrack Mod. 2021

- Single-column metallic structure calculated for winds to 105 km/h.
- Anti-corrosion protection of all the structural elements with hot-dip galvanizing.
- Astronomical simultaneous tracking in two axes: azimuthal and zenithal. Production growth of up to 35% over fixed installations. Maximum angle of deviation: 2º from sun position.
- Azimuthal turn (yaw) by means of slewing bearings driven by electric gearmotor-reducer set.
- Zenithal movement (pitch) driven by a mechanical screw jack and electric elevator set.
- Strong winds protection: for wind speed higher than 70 km/h (programmable) the solar modules surface automatically comes to horizontal position.
- Completely adaptable and suitable for any kind of solar module (upon request). Maximum surface area of 240 m2.

Technical Parameters

Size:	
H1 (mm)	9000
H2 (mm)	4150
A1 (mm)	21000
A2 (mm)	11500
a (º)	0º - 50º
Surface area (m2)	240 (1)
Mechanical:	
Azimuthal turn (yaw) gearmotor power consumption (kW)	0,25
Azimuthal turn (yaw) speed (rpm)	0,1
Zenithal movement (pitch) gearmotor power consumption (kW)	2,2
azimuthal movement (pitch) speed (rpm)	0,04
weight (kg)	9500
Typical Foundation:	
Concrete pad size (m)	4,8x4,8x1,2
Anchorage	24x ∅30
Transport:	
Volume (m3)	37 (2)

(1) Each solar tracker is manufactured according to the number of solar modules to be built in, so the panel surface area indicated is a maximum orientative value.
(2) The size specified for the foundation is a typical value as well, so the correct size must be calculated for each specific location.



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