



> 200 MW installed in the world

DATASHEET ESATRACK-M5



- Up to 27% more power
- Strong
- Photovoltaic module placement flexibility
- Optimum occupancy of the tracker
- Simple assembly (Without welding)
- Minimum maintenance and costs
- Basic functions integrated in the PLC
- Self-powered engine with photovoltaic module
- Zigbee system
- Large tolerances to terrain irregularities



Generals Characteristics ESAttrack-M5

Tracker type	Horizontal Monoaxial
Modules configurations	1500 V / 90x1 Portrait*
Tracker height	1,20 m with inclination 0° (standard)
Number of posts	14 posts + 1 post for engine (standard)
Tracker area	180 m ²
Distance between posts	From 4 to 8 meters depending on loads.
Foundation length	Direct ramming 1,50 m*
Post/axis length	2,245 m / 45,07 m on each side*
Tracker height /Ground distan.	1,78 m/ 0,40 m with inclination 45° (standard)
Screws	Grade 8.8 /ZnNi + Seal
Post profile	Conformed profile C 200x60x20x3 y HEB 120 for engine (standard)
Structure	Magnelis steel S280GD + ZM310 y Galvanised steel S355JR*
Snow and wind loads	According to the requirements of the zone
Anchor to the module	Stainless steel rivet 6.8x13 mm*
Maximum inclination N/S	13° / 23.09%
Maximum inclination E/O	+60°/-60°



Electronic Characteristics ESAttrack-M5

Engine	DC (0,15KW)
Consumtion	Atonomous system
Electrical supply	Photovoltaic panel with backup battery
Sensor	Inclinometer included in the PLC
Wind control	TCU Individual for tracker + NCU control every 200 trackers
IP protection	IP 65
Controller	Touch control panel with Microprocessor (1 for tracker)
Tracking algorithm	Astronomic (error <0.0015°) with backtracking
Communication options	Cable RS - 485/rs 422/ Ethernet or Zigbee
Control system	NCU for atmospheric control and supervision with scada
Resting position	Configurable
Use temperature	Since -5°C to 50°C. Altitude <1000m*

Warranty

Structure	10 years
Corrosion protection	20 years accorting to norm ISO 14713.
Other components	2 years standart warranty

Maintenance

Spherical bearing	No maintenance. Self-lubricating polymer bearing
Maintenance program	Ever 2 years

*Other possible configurations

SPAIN

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