

Get 20% more energy*

Sat Control STL24™ solar tracker



sat-control.net

STL24™ solar tracker

- 25 years operational life
- up to 10 year warranty
- ultra low maintenance
- low power consumption
- easy installation set up
- equipped with powerful analytics
- backtracking function included
- designed and manufactured in EU



Brasov Solar Park 6MWp, Romania. Type of tracker STL18, commissioned 2013.

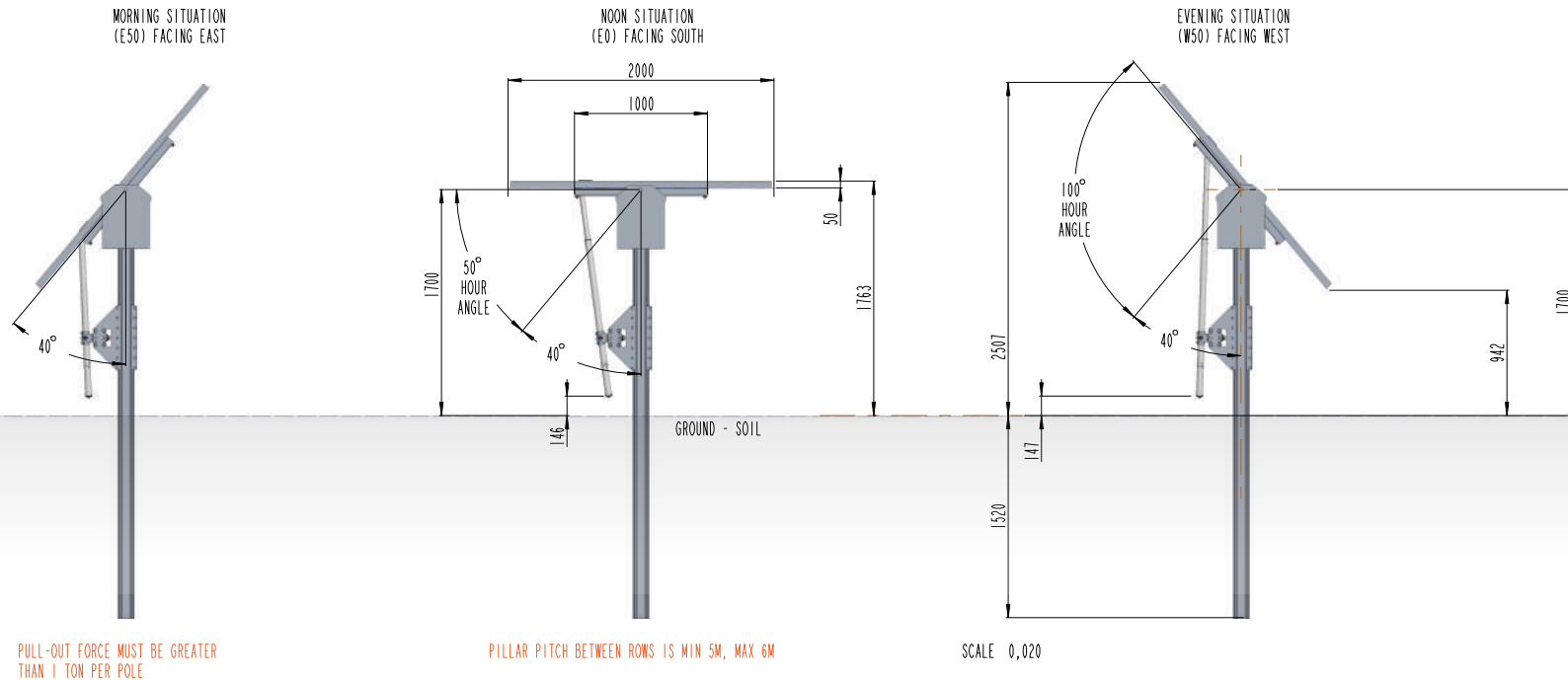
*compared to the fixed system, yield may vary depending on the location.

> Minimum power consumption

> Optimal for all weather conditions

TdAPS (Time derived Astronomical Positioning System)

Sat Control TdAPS™ positioning system offers optimal tracking control in commercial solar plants. It delivers higher reliability and features lower power consumption than sensor positioning.



Positioning System Data

Tracking accuracy	<0.5°
Operating Protocol	TdAPS (Time derived Astronomical Positioning System)
Type of Positioning System	Servo driver positioner with TdAPS arc logic function calc.
Type of positioner	Din Rail positioner NANO or MICRO and external cables
Type of timer	GMT clock with EOT and calendar
Type of application program for supervision and setting	Solar tracking system monitor via Sigma's web site or Helios analytics
Setting and changing data via PC	Yes
Monitoring possibility via PC	Yes
Turned on the position sent from PC	Yes
Turning time interval	1min. - 15min.

Communication Data

Type of communication interface	RS485 or USB interface, depend from positioner type
Networking solution for control from centre	RS485

Firmware - Software

Upgrading possibility via PC	Yes, firmware via RS485 via Sigma's web site or PC with help of Helios Analytics
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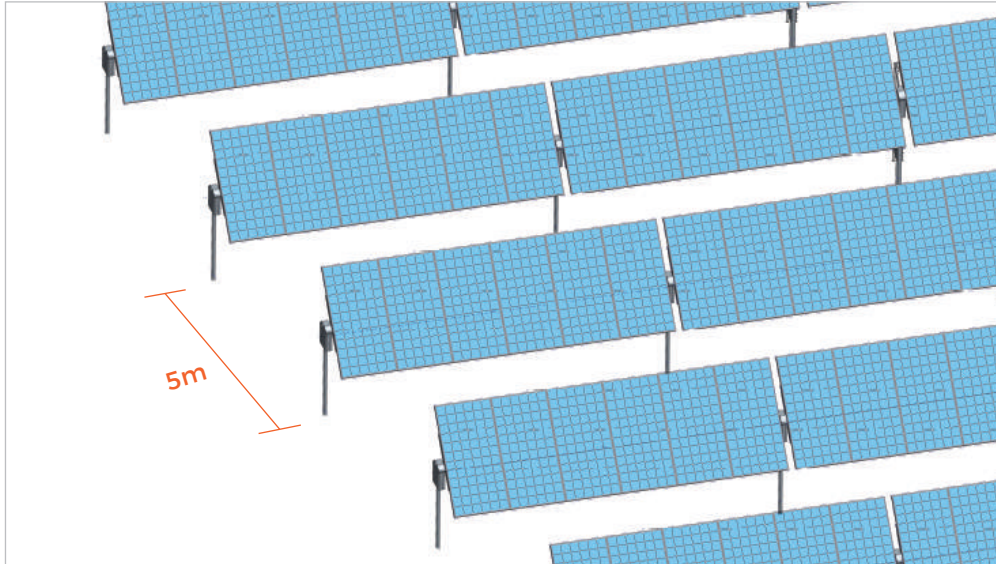
Sat Control positioning system



- Visualization, control and monitoring for large-scale plants
- Integration of Sat Control equipment into existing control-room technology
- Data interface in accordance with the MODBUS communication standards in the field of automation technology
- Simple and fast installation, high reliability
- Meets the requirements of the EU Low-Voltage Directive for grid safety management
- Compatibility with all major third party component/application providers

STL24 scaling for PV plants

STL24™ solar tracker features backtracking anti-shadowing function. It's smart design enables the use of the plot for agricultural purposes.



Environmental Data

Operating temperature	From °25-C to °70+C
Operation at humidity	0% to 100%, relative humidity
Max. safe wind speed in working position	20m/s (72km/h)
Max. safe wind speed in safe wind position (horizontal)	40m/s (144km/h)

Corrosion, weather and chemical resistance

Hot-dip galvanizing (HDG, EN ISO 1461)	50 - 75 µm (equivalent of 50 years)
Hot dip plating (EN ISO 1461)	
Material of linear motors and/or protection	stainless steel

Packaging

Dimensions of a packed product	HQ container 13,55 °45m x 2,35m x 2,69m or package 12,1x0,5x0,5 (L) x 32 (W) x 25 (H) cm
Product weight	670 kg

Quality Certificates

International Protection Rating (IEC 60529)	IP63
Electromagnetic Compatibility (EMC Directive 336/89/EEC)	Yes
Low Voltage Equipment Directive (EEC Council Directive 23/73/EEC)	Yes

Optional Properties

Anti-Shadowing Function or backtracking	Yes, included
Heliostat usage	No

> Backtracking included

> Smart multi-purpose design

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