



## *SOLON Single Axis*

SOLON's new development for large-scale PV power plants.

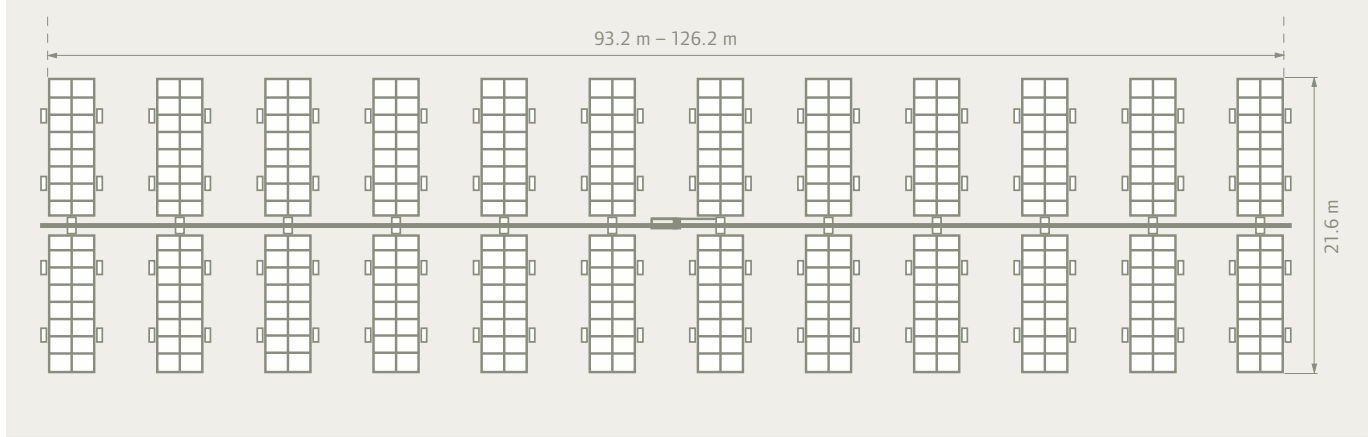
- › Complete PV system single axial tracked with specially developed large SOLON modules
- › Well-known SOLON quality
- › Robust and weatherproof design (COR-TEN steel)
- › High cost-efficiency due to easy installation and low maintenance costs
- › Up to 25 % higher yield, depending on location

# SOLON Single Axis

The SOLON Single Axis tracking system is founded on SOLON's long-standing international experience in developing power plant solutions (e.g. the SOLON Mover) and realizing turnkey solar power plants. The SOLON Single Axis standard unit consists

of 12 x 2 module units each containing 16 modules with a total of 384 large SOLON modules. The tracking of the sun is realized via a single hydraulic unit along the horizontal axis from east to west.

## Topview



## SOLON quality

- Complete PV system with specially developed SOLON large modules
- Tracking of up to 12 rows using a central hydraulic unit

## Economic efficiency

- High cost-efficiency due to easy assembling and low maintenance costs
- Up to 25 % higher yield compared with a fixed tilt south-facing installation, depending on location
- Self-shading optimized tracking (automatic backtracking)

## System safety

- Weatherproof design made from COR-TEN steel
- Hydraulic drive system
- Reliable storm protection
- Reliable anti-theft protection using tried and tested SOLON fixing technology and SOLON large modules
- SOLON internet-based monitoring system for transmitting exact yield data worldwide

## Product types

Poly	Nominal power $P_{nom DC}$ Ø 134 kWp
Mono	Nominal power $P_{nom DC}$ Ø 144 kWp
High Performance	Nominal power $P_{nom DC}$ Ø 173 kWp

## Product data

Measurements	93.2 m – 126.2 m in east/west direction 21.6 m in north/south direction
Modules	384 x large SOLON modules with 4 mm solar glass
Inverter	24 x SOLON GTM 6.0-DE
System weight	approx. 29 t (without foundation)
System height	max. 3.60 m
Foundation	foundation finished parts
Tracking	single axial tracking, astronomically back-tracking, drive system (hydraulic drive unit)
Angle of inclination	max. $\pm 45^\circ$
Communication	CANopen, Industrial Ethernet, system integrated SOLON monitoring system with extensive measurement of environmental conditions
Wind resistance	80 km/h in operating position (150 km/h in storm position)* wind zone II/III according to DIN 1055-4:2005-03
Certificates	CE, TÜV: IEC 61215, IEC 61730
Required space	approx. 2.5 ha for 1 MW, based on topography, location and vegetation

\* Can be increased through constructive adjustments if required.



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