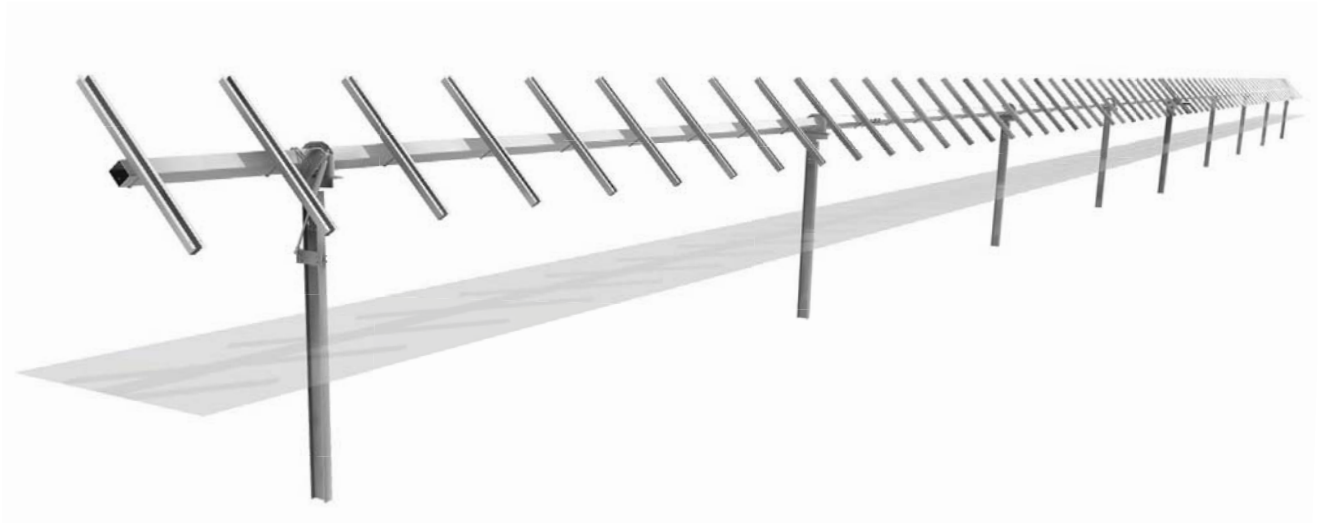


# DEGERtracker S100-PF-SR

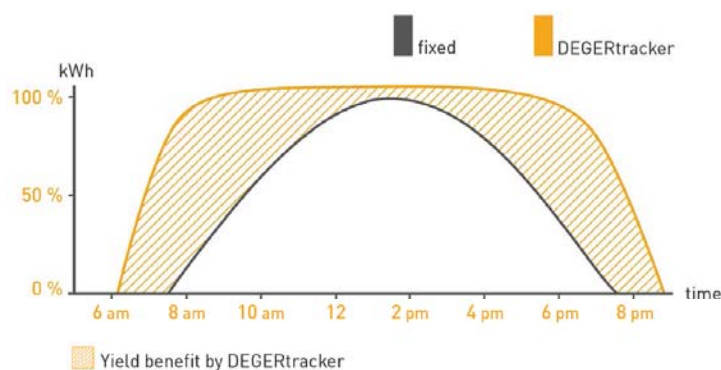


## SINGLE-AXIS TRACKING SYSTEM

Single-axis, active tracking systems from DEGER enable the optimal utilization of all the irradiation energy, suitable for all widely-sold solar modules. With the patented sensor-based MLD technology you can achieve yield increases of approx. 30% for all photovoltaic applications. An easy plug-and-play installation is

realized by means of the stable supporting construction. The decentralized control enables maximum independence. DEGERtrackers are "designed in Germany"- and stand for quality and durability.

Rating chart using a sunny summer day as an example



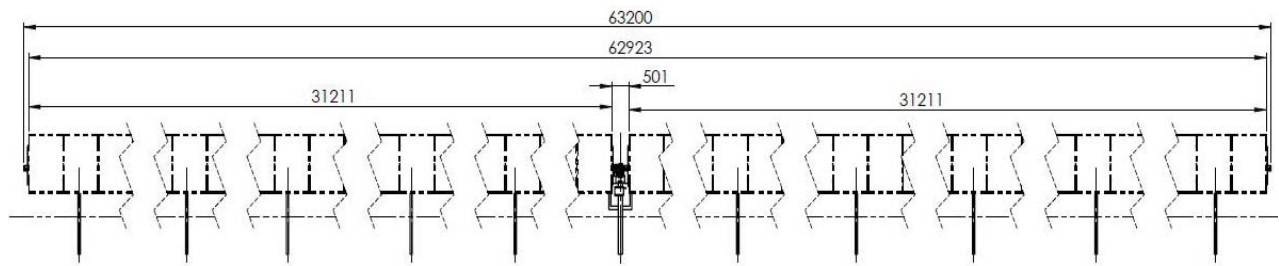
### Advantages

- Yield increase with MLD-Technology
- Yield increase with snow sensor
- Fast and simple installation and easy handling
- Robust durable technology
- Automatic reset in initial position at night
- Up to 100 trackers to be managed by one Central Tracking Control (CTC)
- Wind guard with anemometer, in storm conditions DEGERtracker is placed automatically in security position
- Monitoring and Backtracking

### Technology

- Efficiency with intelligent tracking
- Maximum Light Detection control concept
- Premium product from the global market leader
- Low power consumption

# Technical Specification



## DEGERtracker S100-PF-SR with driven pile foundation <sup>(1)</sup>

### BASIC DATA

Nominal output (depending on module)	19,840 - 21,000 Wp DC
Tracking type	1-axis
Module surface up to	125,6 m <sup>2</sup>
Max. module surface (W x H)	2 x 31,4 m x 2,0 m
72-cell Standard Module (max.)	62
Elevation angle	0°
Approvals	CE, UL

### STRUCTURE

Materials	hot-dip galvanized steel, aluminum, synthetics
Galvanization	EN ISO 1461 or comparable
Bond-Type	bolted connection, no welding on site
Certified statics	yes
Weight (without mast/aluminum)	project specific

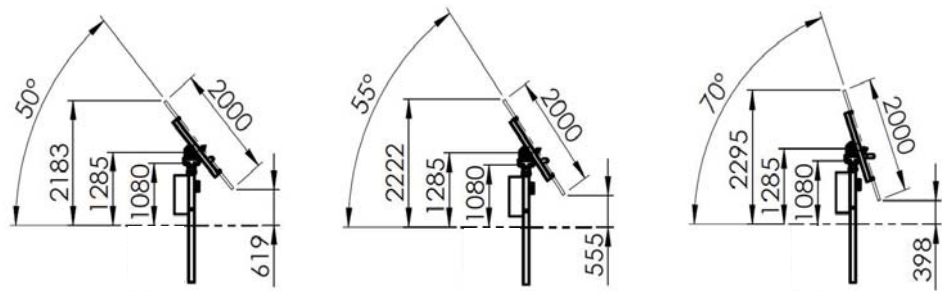
### DRIVE

Principle	maintenance free rotary drive
East-West angle (with snow)	+50° / -70°
East-West angle (without snow)	+/- 55°
Spin speed	18°/min.
Sound level (without load)	50 dB(A)
Protection class	IP 55

### ELECTRONICS & CONTROL

Operating voltage	100 – 240 V AC / 100 - 380 V DC / 50 – 60 Hz
Rated input current	2,3 A
Control	MLD-Technology
Protection class	IP 54

# Technical Specification



**DEGERtracker S100-PF-SR  
with driven pile foundation <sup>[1]</sup>**

## POWER CONSUMPTION (APPROX)

Control mode	1 W
With running actuator	50 W – 336 W

## POWER OUTPUT

Output voltage	24 V DC
Output current (max.)	10 A

## CLIMATIC CONDITIONS

Installation over sea level	max. 2000 m
Permissible ambient temperature	-20°C – +50°C
Humidity range	5% – 95%
Permitted wind speed	120 km/h   140 km/h   170 km/h <sup>[2]</sup>

## GROUND CONDITIONS

Max. ground inclination East-West	10°
Max. ground inclination North-South	10° <sup>[3]</sup>
Subsoil requirements	soil survey necessary

## PILE DRIVING FLEXIBILITY

Ramming accuracy related to axis	max. +/- 25 mm
Axis twist angle	max. +/- 5°
Ramming accuracy in height	max. +/- 10 mm

[1] The depth of the driven pile foundation must be statically calculated

[2] With full occupancy – Laid out with Planning Tool

[3] Tracker axis installed parallel to the ground

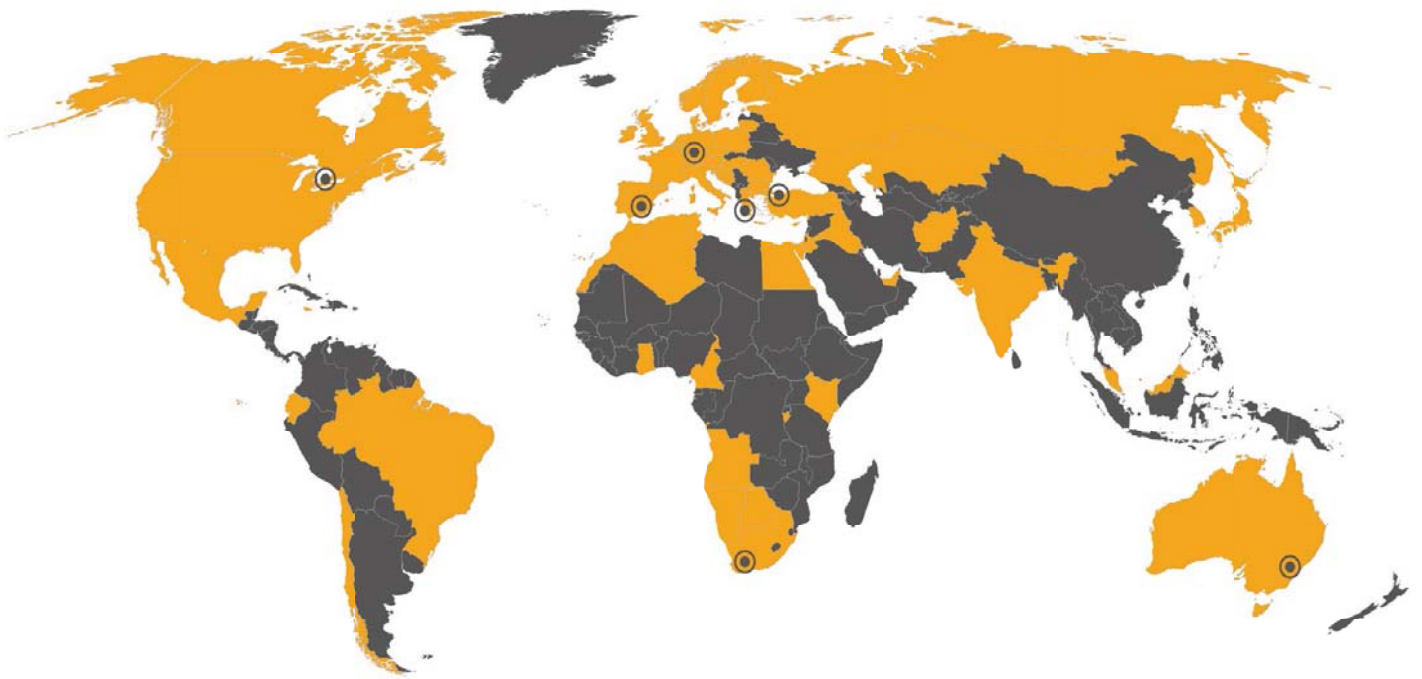
## SCOPE OF DELIVERY

Complete single-axis tracking systems, solar module carrier system made of steel - matching the module type used, patented MLD control (Maximum Light Detection) with MLD sensor and assembly instructions.

## OPTIONAL SERVICES

Assembly support, trainings and on-site service.

**WE ARE AT YOUR SERVICE.  
WORLDWIDE.**



- ⊙ Sales and production locations
- Installed DEGER systems

---

DEGERenergie GmbH & Co. KG  
Industriestraße 70  
72160 Horb am Neckar  
Germany

Phone +49745153914-0  
Fax +49745153914-10  
info@DEGERenergie.com  
www.DEGER.biz



**Iris Hellas**  
Technology Innovations  
[www.irishellas.com](http://www.irishellas.com)