

DEGERtracker 3000HD · 3000NT · 5000NT

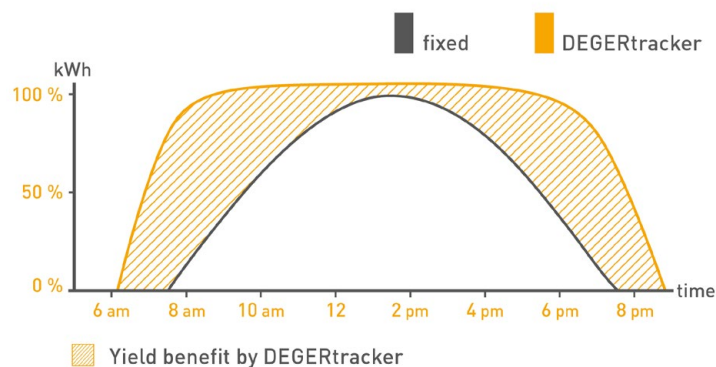


DUAL-AXIS TRACKING SYSTEM

Dual-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. 45% 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 Control Box (CCB)
- Wind guard with anemometer, in storm conditions DEGERtracker is placed automatically in security position

Technology

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

Technical Specification



DEGERtracker 3000HD ⁽¹⁾



DEGERtracker 3000NT ⁽¹⁾



DEGERtracker 5000NT ⁽¹⁾

BASIC DATA

Nominal output (depending on module)	2.000 – 4.000 Wp	2.000 – 4.000 Wp	4.000 – 7.000 Wp
Tracking type	2-axis		
Module surface up to	25 m ²	25 m ²	40 m ²
Max. module surface (WxH)	5,05 m x 5,05 m	5,05 m x 5,05 m	8,3 m x 5,3 m
60-cell Standard Module (max)	15	15	24
72-cell Standard Module (max.)	12	12	20
Option for building integration	Yes	No	No
East-West angel	300 °		
Elevation angle	20° – 90 °		
Approvals	CE, EN		

STRUCTURE

Materials	hot-dip galvanized steel, aluminum, synthetics		
Galvanization	EN ISO 1461 or comparable		
Bond type	bolted connection, no welding on site		
Wind tunnel tested	Yes		
Static design calculations	Yes		
Weight (without mast/aluminum)	650 kg	600 kg	650 kg

DRIVE

Elevation actuator	835 mm lifting
East-West angle	gears in drive head
Spin speed elevation	13°/min.
Spin speed azimuth	30°/min.
Sound level	73 dB{ A}
Protection class	IP 66

Technical Specification



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ELECTRONICS & CONTROL

Operating voltage	100 – 240 V AC / 50 – 60 Hz		
Rated input current	2 A		
Control	MLD-Technologie		
Protection class	IP 54		

POWER CONSUMPTION (APPROX)

Control mode	1 W		
With running actuator	15 W	8 W	12 W
Internal consumption per year	14 kWh	7 kWh	11 kWh

POWER OUTPUT

Output voltage	24 V DC		
Output current (max.)	2,5 A		

CLIMATIC CONDITIONS

Installation over sea level	max. 2000 m		
Permissible ambient temperature	-20°C – +50°C		
Humidity range	5% – 95%		
Extended air pressure range	170 km/h ⁽²⁾	102 km/h ⁽²⁾	102 km/h ⁽²⁾

⁽¹⁾ Not available in all countries

⁽²⁾ With full occupancy – Laid out with Planing Tool

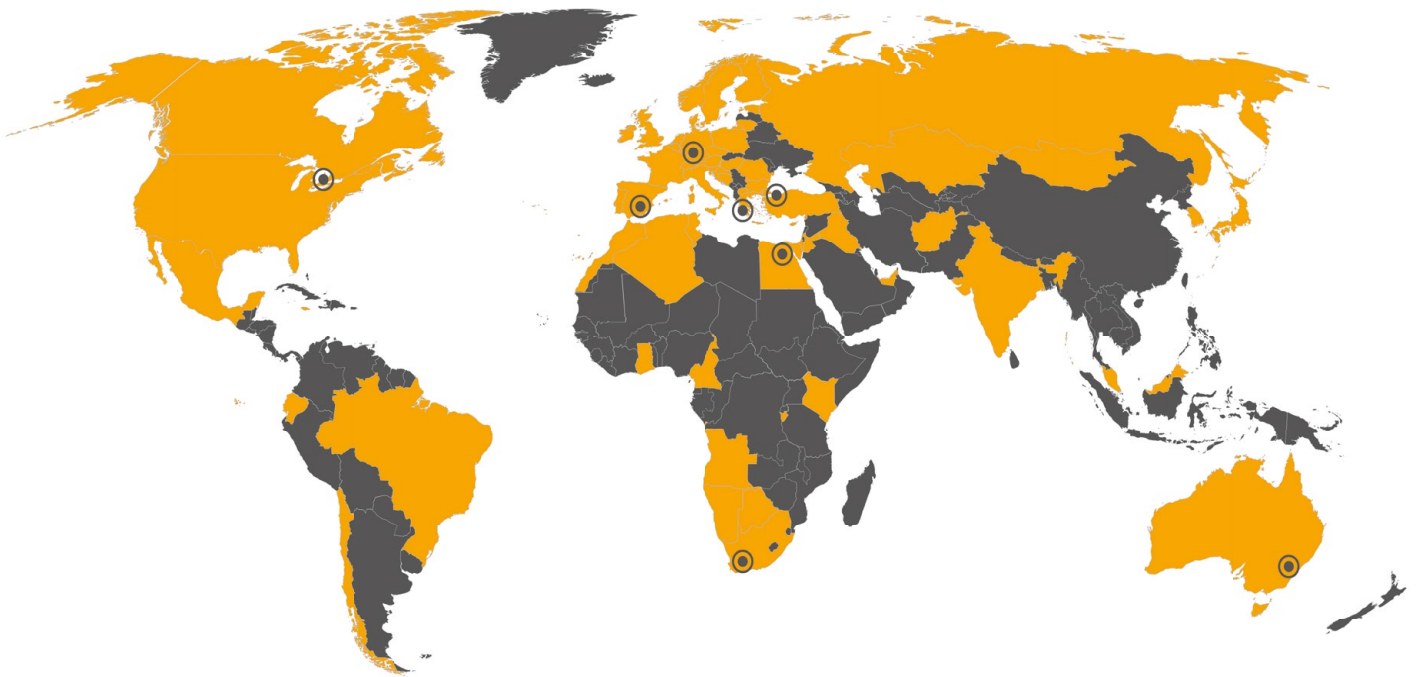
SCOPE OF DELIVERY

Complete dual-axis tracking systems, solar module carrier system made of aluminum - 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

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