

DEGERtracker 3000HD · 3000NT · 5000NT

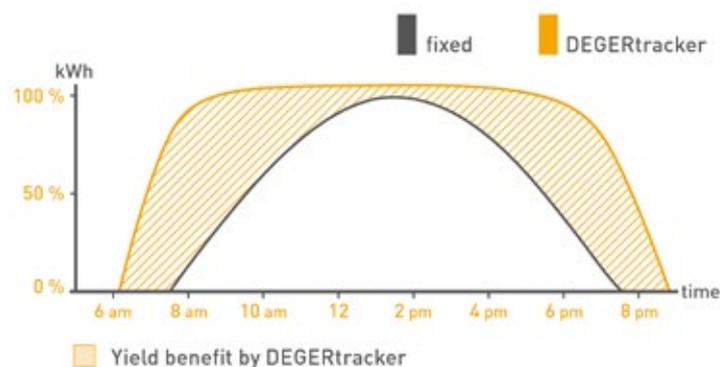


DUAL-AXIS TRACKING SYSTEM

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 desing 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 control MLD (Maximum Light Detection) with MLD sensor, wind guard, snow sensor, foundation plan, assembly instructions.

OPTIONAL SERVICES

Extended warranty, on-site service, trainings.