

DEGER 3000HD · 3000NT · 5000NT

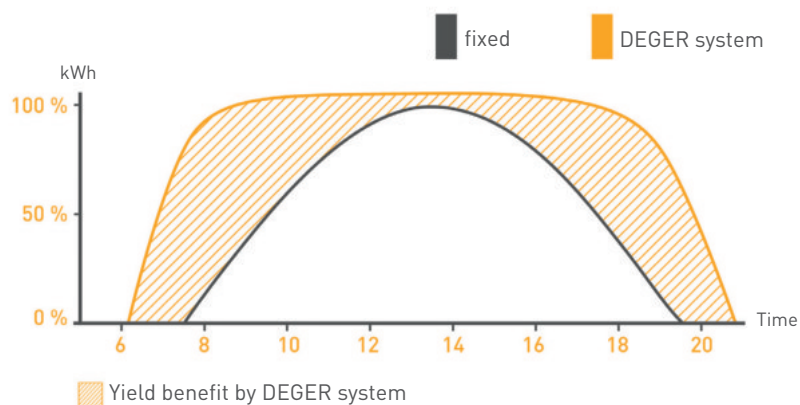


DUAL-AXIS TRACKING SYSTEM

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. DEGER systems 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, wind tunnel tested
- 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 DEGER system 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



DEGER 3000HD ⁽¹⁾



DEGER 3000NT ⁽¹⁾



DEGER 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 |

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DEGER 3000HD ⁽¹⁾



DEGER 3000NT ⁽¹⁾



DEGER 5000NT ⁽¹⁾

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

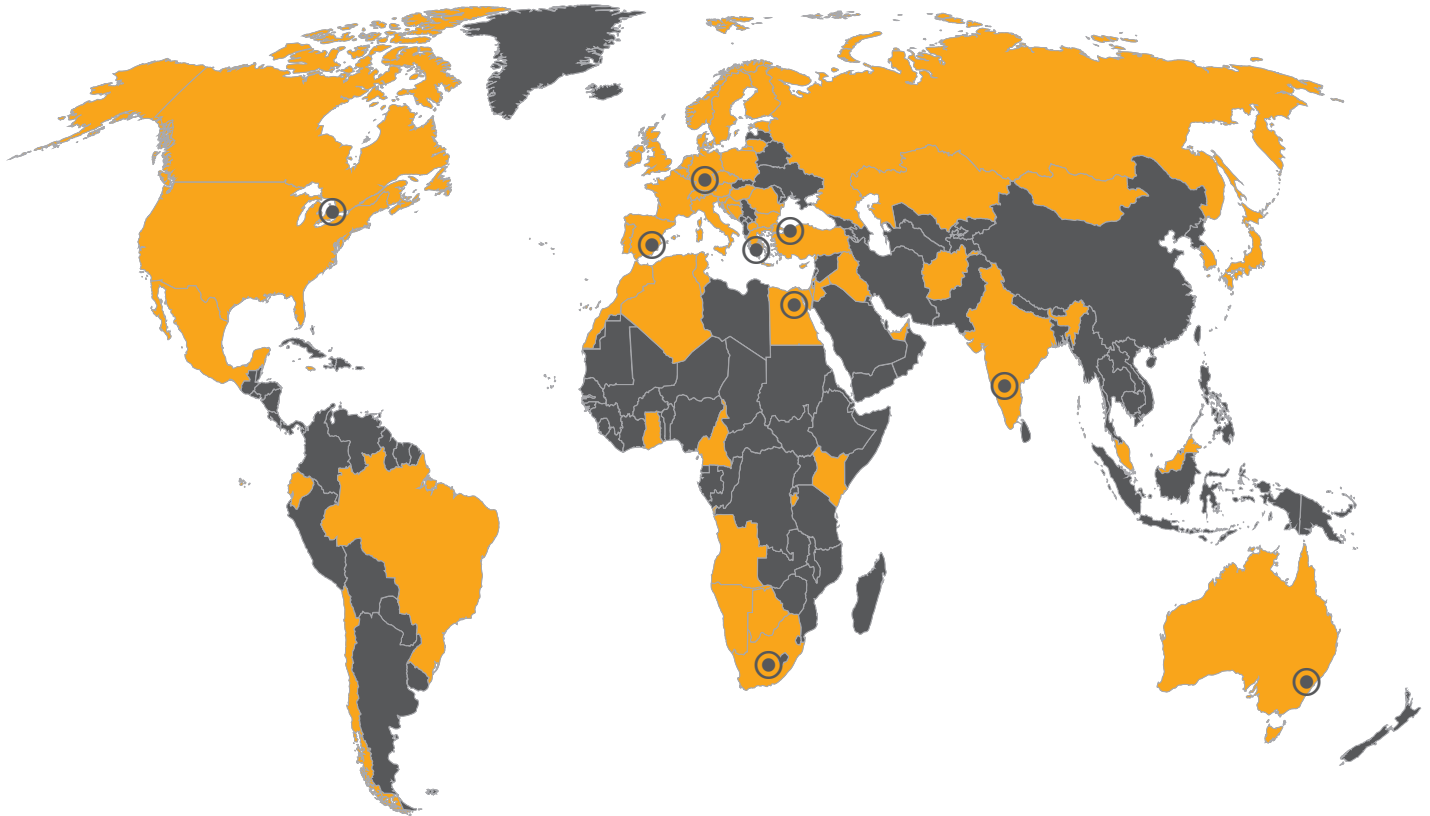
SCOPE OF DELIVERY

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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