

DEGER D60H · D80 · D100

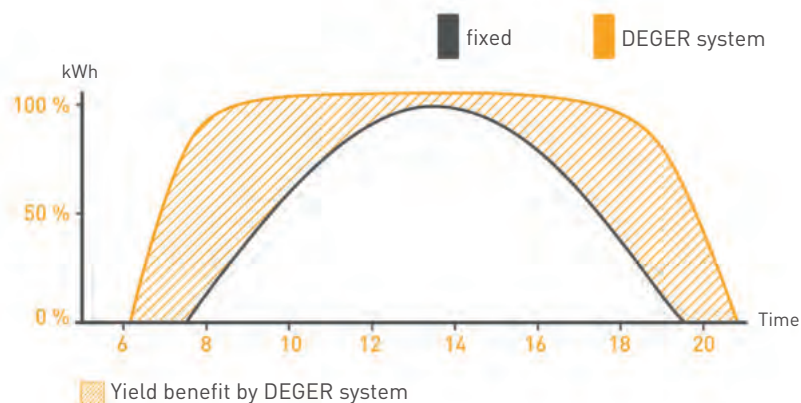


DUAL-AXIS TRACKING SYSTEM

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
- Based on co-development with Wacker Ingenieures

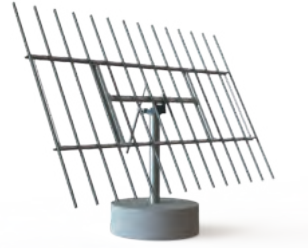
Technology

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

Technical Specification



DEGER D60H ⁽¹⁾



DEGER D80 ⁽¹⁾



DEGER D100 ⁽¹⁾

BASIC DATA

Nominal output (depending on module)	4.000 — 7.000 Wp	6.000 — 10.000 Wp	8.000 — 12.000 Wp
Tracking type	2-axis		
Module surface up to	40 m ²	52 m ²	70,6 m ²
Max. module surface (WxH)	8,3 m x 5,3 m	10,05 m x 5,6 m	11,95 m x 6 m
60-cell Standard Module (max.)	24	31	42
72-cell Standard Module (max.)	20	25	35
Option for building integration	Yes	No	No
East-West angel	300 °		
Elevation angle	0° — 80 °		
Approvals	CE, EN, UL,CSA		

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)	890 kg	930 kg	970 kg

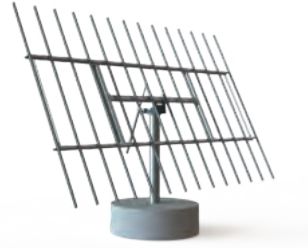
DRIVE

Elevation actuator	800 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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ELECTRONICS & CONTROL

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

POWER CONSUMPTION (APPROX)

Control mode	1 W		
With running actuator	10 W	15 W	18 W
Internal consumption per year	15 kWh	14 kWh	16 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⁾	130 km/h ⁽²⁾	102 km/h ⁽²⁾

[1] Not available in all countries

[2] With full occupancy – Laid out with planing tool

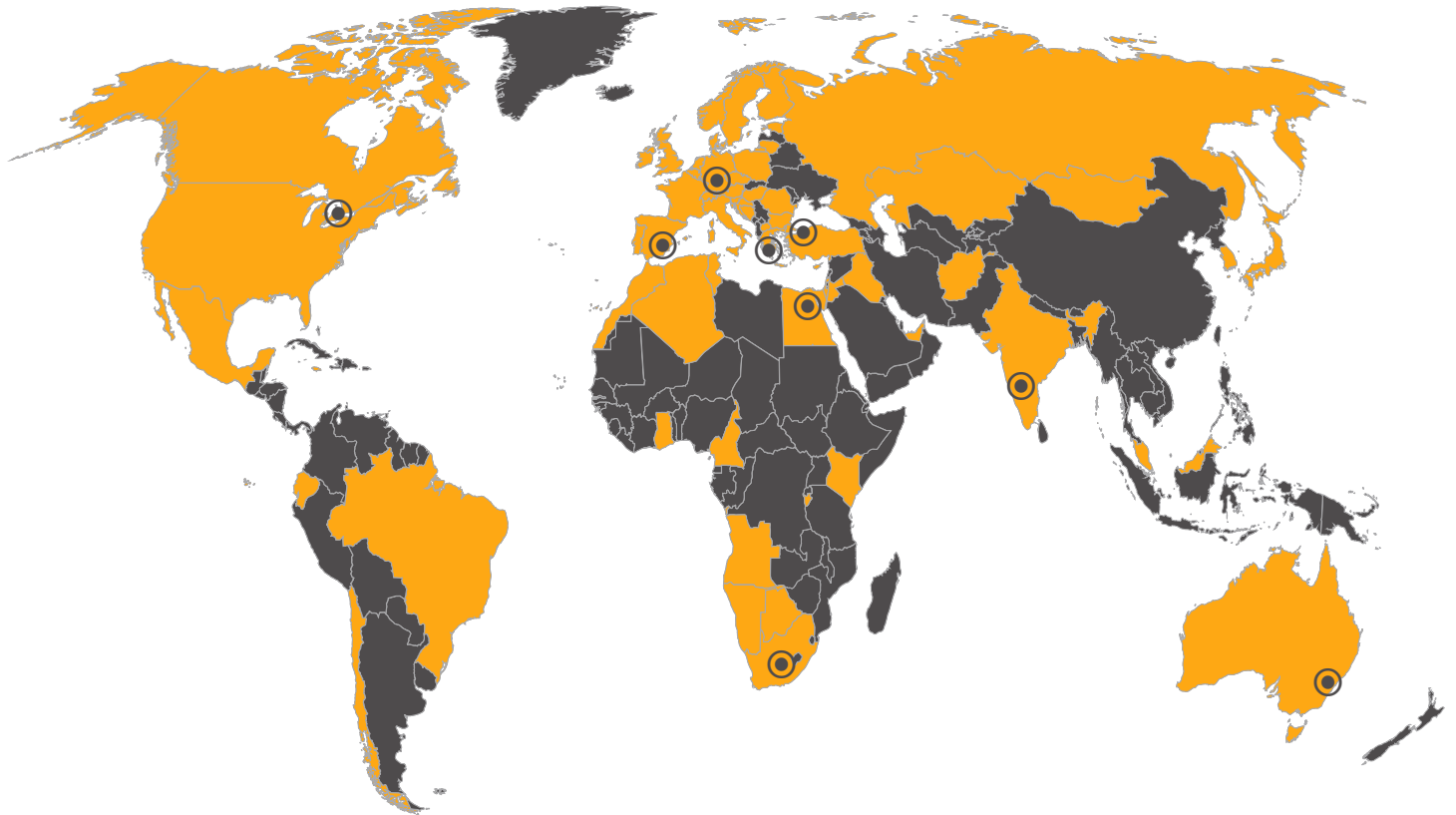
SCOPE OF DELIVERY

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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