

DEGER 8.5

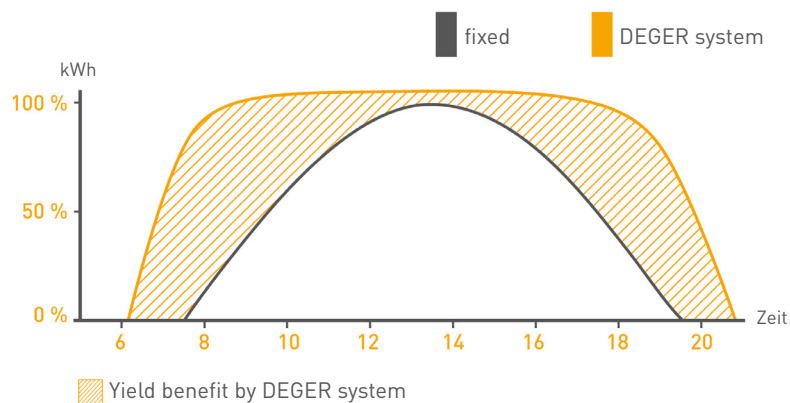


SINGLE-AXIS TRACKING SYSTEM

Single-axis, active tracking systems from DEGER enable the optimal utilization of all the irradiation energy, suitable for all widely-sold solar modules. You can achieve yield increases of approx. 30% for all photovoltaic applications. An easy

plug-and-play installation is realised by means of the prefabricated wiring. 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
- Fast and simple installation and easy handling
- Robust durable technology

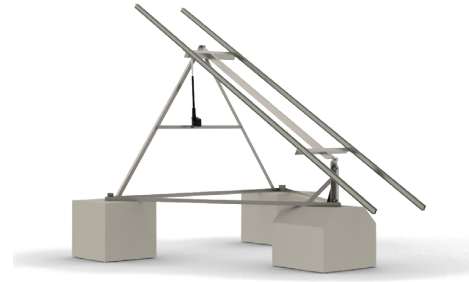
Technology

- Efficiency with intelligent tracking
- Maximum Light Detection control concept
- Low consumption

Technical Specification



DEGER 8.5



BASIC DATA

Nominal output (depending on module)	500 – 1.300 Wp
Tracking type	1-axis
Module surface up to	8,5 m ²
Max. module surface (W x H)	5,1 m x 1,7 m
60-cell Standard Module (max.)	5
72-cell Standard Module (max.)	4
Elevation angle	Standard: 30°; Optional 20°
Approvals	UL, CSA
Option for building integration	Yes

STRUCTURE

Materials	Premium steel, aluminum, steel
Galvanization	EN ISO 1461 or comparable
Bond-Type	bolted connection
Weight (without mast/aluminum)	125 kg

DRIVE

Principle	maintenance free spindle drive
East-West angle	+/- 45°
Stroke length	380 mm Hub
Sound level (without load)	at a distance of 10 meters: 20-40 dB(A)
Protection class	IP 65

ELECTRONICS & CONTROL

Operating voltage	24 VDC
Rated input current	5 A
Control	MLD
Protection class	IP 54

POWER CONSUMPTION (APPROX)

Control mode	0,1 W
With running actuator	9 W
Internal consumption per year	1 kWh

CLIMATIC CONDITIONS

Installation over sea level	max. 2000 m
Permissible ambient temperature	-20°C – +55°C
Humidity range	5% – 95%
Permitted wind speed	130 km/h ⁽¹⁾

(1) With full occupancy – Laid out with planing tool

SCOPE OF DELIVERY

Complete single-axis DEGER 8.5 system, solar module carrier system made of aluminum - matching the module type used, patented MLD control (Maximum Light Detection) with MLD sensor and assembly instructions.

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