

SCHLETTER TRACKING SYSTEM 2V/2P



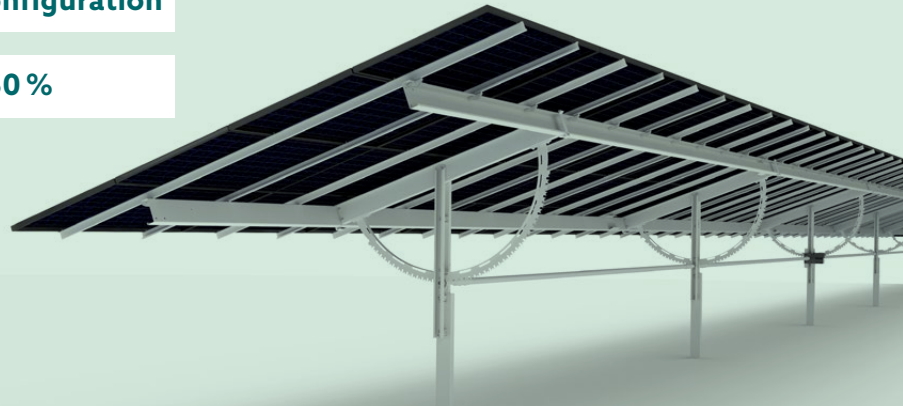
PRODUCT SHEET

Accommodates 2 modules in portrait configuration

Highest ground cover ratio, more than 50 %

No galloping effect due to patented structural concept

Stable as a fixed tilt



LARGEST MODULE AREA PER MOTOR

Up to 480 m² (2x2x120 m) module area per drive which enables the highest ground cover ratio in the market.

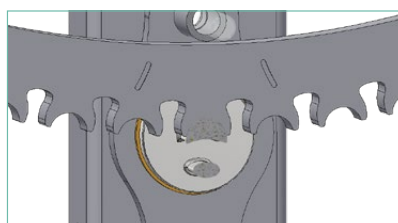
AGILE CONTROL AND DRIVE SYSTEM, ADAPTABLE FOR ALL PROJECT LOCATIONS

The standard version is grid-powered. Upon customer request, a self-powered solution can be offered, in which a dedicated PV panel or the already existing string provides the power to the controller and the motor.

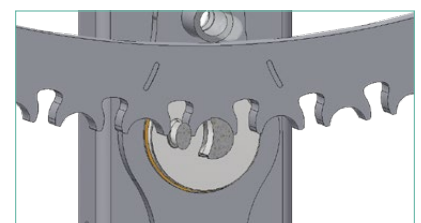


INDEPENDENT SELF-LOCKING ROWS WITH ± 60° ROTATIONAL RANGE (120° TRACKING RANGE)

Each row has a unique and patented method of self-locking at each post in every position, additional dampers are not required. The danger of "galloping" is completely avoided. This provides a higher level of investment security. In addition, a wide rotational range of ± 60° provides more energy during the day.



Tracking system in locking position



Tracking system in stepping position



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TECHNICAL SPECIFICATIONS

Scope of application	Horizontal single axis tracker (SAT)
Material	Galvanized steel / stainless steel
Structural analysis	Structural analysis based on recognized engineering standards. Verification of structural safety of the mounting system is based on Eurocodes and general construction approvals. The load assumptions comply with DIN EN 1991-1 and the regulations of the national annex. Any instructions on required certification and approval must be observed.
Module configuration	2 module rows in portrait configuration (1000 or 1500 V DC)
Ground cover ratio	> 50 %
Fastening	Suitable for installation with a fast-clamping system
Installation effort	Easy installation due to pre-assembled components
Tracking range	120° (± 60°)
Tracking control systems	Sensors
Power per tracker	Approx. 80 kWp (depending on module type), max. 240 modules ≈ 480 m ²
Dimensions	<ul style="list-style-type: none"> • Length per tracker: 120 m / 400 ft • Width per tracker: 4 - 5 m / 13 ft • Height per tracker: 4 m / 10 ft (with 0,5 m / 1,6 ft ground clearance)
Drive system	24 V DC motor, grid- or string powered system (self-powered option available)
Noise emission	< 70 dB(A)
Flood protection	1.2 m / 4 ft clearance for electrical components
Ground maintenance	Free passage between tracker rows
Tracking system	Astronomical
Positions	<ul style="list-style-type: none"> • Stow position: 9° • Night position: 9° • Backtracking: ✓ • Maintenance position: ✓ • Snow position: ✓ (optionally)
Monitoring system	Network Control Unit / SCADA interface
Communication & Control System	Wireless string-powered controller for each row / ZigBee communication (RS485 option available)
Compliance	UL 2703 / UL 3703 / ASCE 7-05/10/16 / CE 2006/42/EC / DIN EN 62817



Protection class	IP54 / IP65 / NEMA 4x
Corrosion class	Standard C3, optional C4 or more
Operating temperature	<ul style="list-style-type: none">• AC-powered option: -25 °C to +60 °C / -13 °F to 140 °F• Self-powered & String-powered option: -10°C to + 50°C / 14°F to 122°F
Foundation	C-channel SRF / wide flange beam e.g. W6x7
Max. slope	N-S 10°, E-W 10°
Max. wind speed	<ul style="list-style-type: none">• Tracking mode: up to 56 km/h / 35 mph (3-sec. gust)• Storm position (standard): up to 167 km/h / 105 mph (3-sec. gust)• Storm position (on request): up to 257 km/h / 160 mph (3-sec. gust) <p>(The exact max. wind speeds are calculated on a project-specific basis.)</p>
Warranty	10 years on structural components; 5 years on drive, battery and control systems. Extended terms available.
Supplementary documents	Original operating manual Schletter Tracking System 2V/2P – Part 1 Assembly and installation Original operating manual Schletter Tracking System 2V/2P – Part 2 Operation and maintenance



More info

