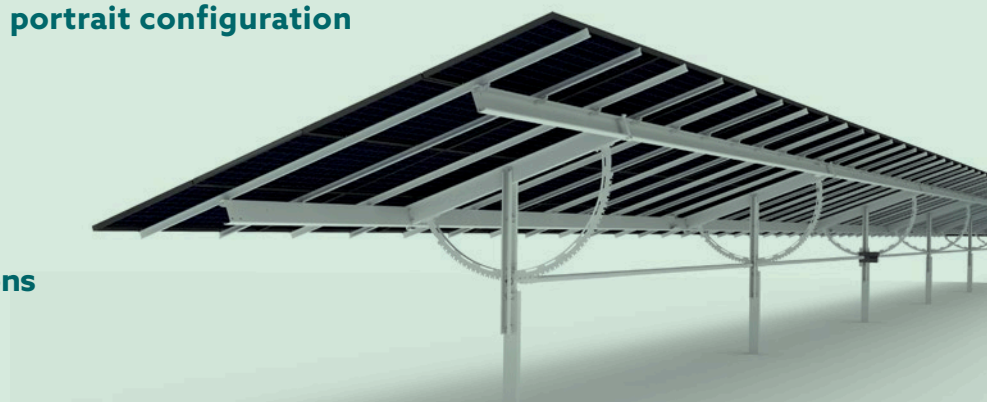
SCHLETTER

SCHLETTER **TRACKING SYSTEM 2V/2P**

PRODUCT SHEET

+ **Accommodates 2 modules in portrait configuration**
+ **No galloping effect due to patented structural concept**
+ **Stable as a fixed tilt**
+ **Suitable for Agri-PV applications**



LARGEST MODULE AREA PER MOTOR

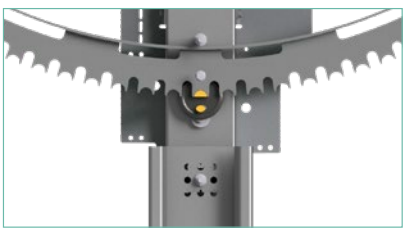
Up to 480 m² (2x2x120 m) module area per drive which enables the highest ground cover ratio in the market.

INDEPENDENT SELF-LOCKING ROWS WITH ± 70° ROTATIONAL RANGE (140° TRACKING RANGE)

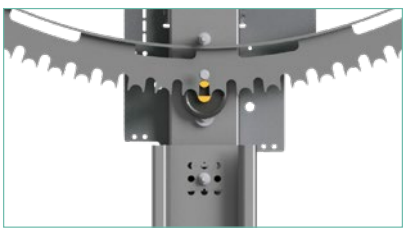
Each row has a unique and patented method of self-locking at each post in every position, additional dampers are not required. The danger of "galloping" is completely avoided. This provides a higher level of investment security. In addition, a wide rotational range of ± 70° provides more energy during the day.



Girder assembly with drive and control unit



Tracking system in locking position



Tracking system in stepping position

TECHNICAL SPECIFICATIONS

Scope of application	Horizontal single axis tracker
Material	Galvanized steel / zinc flake coated 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, ASCE 7-05/10/16 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)
Fastening	Suitable for installation with a fast-clamping system
Installation effort	Easy installation due to pre-assembled components (optional)
Tracking range	140° (± 70°)
Power per tracker	Approx. 80 kWp (depending on module type), max. 240 modules ≈ 480 m²
Max. Dimensions	• 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-powered system
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	• Stow position: 9° • Backtracking: ✓ • Snow position: ✓ (optionally) • Night position: 9° • Maintenance position: ✓
Monitoring system	Network Control Unit / SCADA interface
Communication & Control System	Grid-powered control unit for each row / ZigBee communication (RS485 option available)
Compliance	UL 2703 / UL 3703 / CE 2006/42/EC / DIN EN 62817
Protection class	IP54 / IP65 / NEMA 4x
Corrosion class	Standard C3, optional C4 or more

Operating temperature	-25°C to + 60°C / -13°F to 140°F (-10°C to + 50°C / 14°F to 122°F for UL 3703 compliance)
Foundation	C-channel SRF
Max. slope	N-S 5°, E-W 10° (Project-specific structural verification required.)
Max. wind speed	• 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) (The exact max. wind speeds are calculated on a project-specific basis.)
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