

# SCHLETTER TRACKING SYSTEM 2V/2P



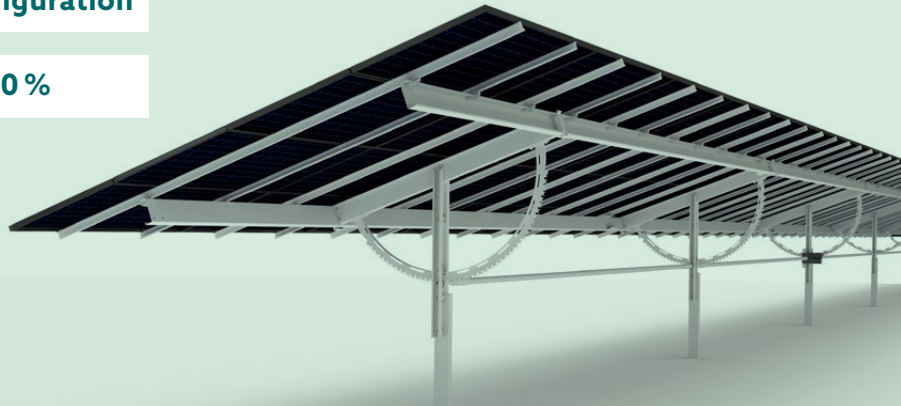
PRODUCT SHEET

**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 m<sup>2</sup> (2x2x120 m) module area per drive which enables the highest ground cover ratio in the market.

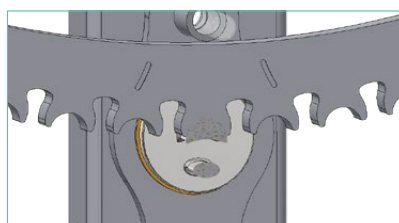
**AGILE CONTROL AND DRIVE SYSTEM, ADAPTABLE FOR ALL PROJECT LOCATIONS**

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.

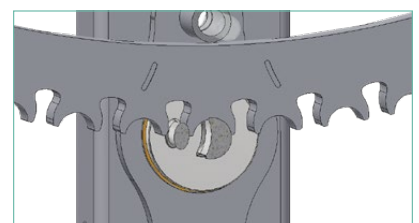


**INDEPENDENT SELF-LOCKING ROWS WITH ± 60° ROTATIONAL RANGE (120° TRACKING RANGE)**

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



# SCHLETTER TRACKING SYSTEM 2V/2P

## TECHNICAL SPECIFICATIONS

<b>Scope of application</b>	Horizontal single axis tracker (SAT)	
<b>Material</b>	Galvanized steel / stainless steel	
<b>Structural analysis</b>	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.	
<b>Module configuration</b>	2 module rows in portrait configuration (1000 or 1500 V DC)	
<b>Ground cover ratio</b>	> 50 %	
<b>Fastening</b>	Suitable for installation with a fast-clamping system	
<b>Installation effort</b>	Easy installation due to pre-assembled components	
<b>Tracking range</b>	120° (± 60°)	
<b>Tracking control systems</b>	Sensors	
<b>Power per tracker</b>	Approx. 80 kWp (depending on module type), max. 240 modules ≈ 480 m <sup>2</sup>	
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>• Length per tracker: 120 m / 400 ft</li> <li>• Width per tracker: 4 - 5 m / 13 ft</li> <li>• Height per tracker: 4 m / 10 ft (with 0,5 m / 1,6 ft ground clearance)</li> </ul>	
<b>Drive system</b>	24 V DC motor, grid- or string powered system (self-powered option available)	
<b>Noise emission</b>	< 70 dB(A)	
<b>Flood protection</b>	1.2 m / 4 ft clearance for electrical components	
<b>Ground maintenance</b>	Free passage between tracker rows	
<b>Tracking system</b>	Astronomical	
<b>Positions</b>	<ul style="list-style-type: none"> <li style="width: 33%;">• Stow position: 9°</li> <li style="width: 33%;">• Backtracking: ✓</li> <li style="width: 33%;">• Snow position: ✓ (optionally)</li> <li style="width: 33%;">• Night position: 9°</li> <li style="width: 33%;">• Maintenance position: ✓</li> </ul>	
<b>Monitoring system</b>	Network Control Unit / SCADA interface	
<b>Communication &amp; Control System</b>	Wireless string-powered controller for each row / ZigBee communication (RS485 option available)	
<b>Compliance</b>	UL 2703 / UL 3703 / ASCE 7-05/10/16 / CE 2006/42/EC / DIN EN 62817	



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

