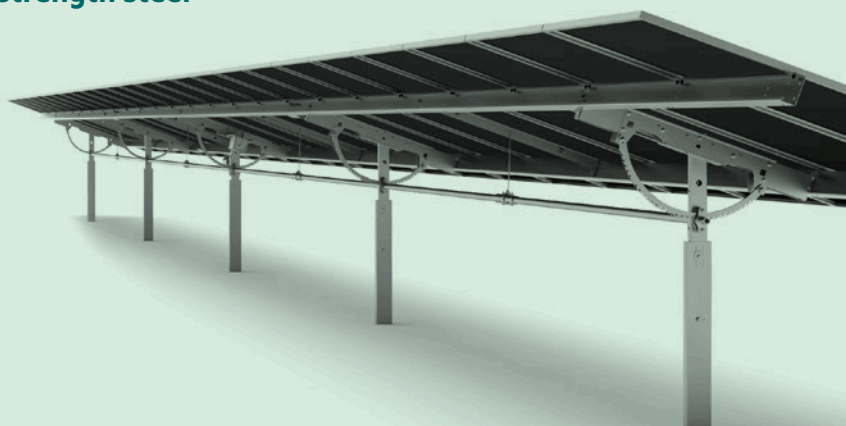


# SCHLETTER TRACKING SYSTEM 1V/1P

## PRODUCT SHEET

- + Accommodates large format & bifacial modules
- + Mounting flexibility maximizes module load bearing capacity
- + Light and robust design incorporating high strength steel
- + Stable as a fixed tilt - tested in wind tunnel
- + Suitable for Agri-PV applications
- + Low LCOE due to durable design, efficient mounting and foundation

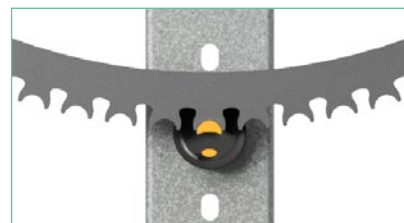


### INDEPENDENT SELF-LOCKING ROWS WITH $\pm 60^\circ$ ROTATIONAL RANGE (120° TRACKING RANGE)

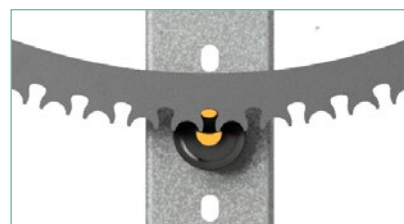
Each row has a unique and patented method of self-locking at each post in every position, additional dampers are not required. The danger of "galloping" is completely avoided. This provides a higher level of investment security. In addition, a wide rotational range of  $\pm 60^\circ$  provides more energy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



Girder assembly with drive and control unit



Tracking system in locking position



Tracking system in stepping position

## TECHNICAL SPECIFICATIONS

<b>Scope of application</b>	Horizontal single axis tracker (SAT)		
<b>Material</b>	Galvanized steel / zinc flake coated steel / stainless steel		
<b>Structural analysis</b>	<p>Structural analysis based on recognized engineering standards.</p> <p>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.</p> <p>Any instructions on required certification and approval must be observed.</p>		
<b>Module configuration</b>	<ul style="list-style-type: none"> <li>• 1 module row in portrait configuration</li> <li>• Up to 3 strings installable</li> <li>• Max. module size: 2500 x 1350 mm</li> </ul>		
<b>Fastenings</b>	Suitable for installation with a fast-clamping system		
<b>Installation effort</b>	Easy installation due to pre-assembled components (optional)		
<b>Tracking range</b>	120° (± 60°)		
<b>Power per tracker</b>	Approx. 45 kWp (depending on module type), max. 90 modules ≈ 225 m <sup>2</sup>		
<b>Max. Dimensions</b>	<ul style="list-style-type: none"> <li>• Length per tracker: 90 m / 300 ft</li> <li>• Width per tracker: 2,5 m / 8 ft</li> <li>• Height per tracker: 3 m / 10 ft (with 0,5 m / 1,6 ft ground clearance)</li> </ul>		
<b>Drive system</b>	24 V DC motor, grid-powered system (optionally self-sufficient)		
<b>Noise emission</b>	< 70 dB(A)		
<b>Flood protection</b>	1.0 m / 3 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>• Stow position: 8°</li> <li>• Night position: 8°</li> <li>• Backtracking: ✓</li> <li>• Maintenance position: ✓</li> <li>• Snow position: ✓ (optionally)</li> </ul>		
<b>Monitoring system</b>	Network Control Unit / SCADA interface		
<b>Communication &amp; Control System</b>	Grid-powered control unit for each row / ZigBee communication (RS485 option available)		
<b>Compliance</b>	UL 3703 / CE 2006/42/EC / DIN EN 62817 / TIL No. A-41		

<b>Protection class</b>	IP54 / IP65 / NEMA 4x
<b>Corrosion class</b>	Standard C3, optional C4 or more
<b>Operating temperature</b>	-25°C to + 60°C / -13°F to 140°F (-10°C to + 50°C / 14°F to 122°F with UL 3703 compliance or self-sufficient drive system)
<b>Foundation</b>	C-Profile
<b>Max. slope</b>	N-S 10°, E-W 10° (Project-specific structural verification required.)
<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> (The exact max. wind speeds are calculated on a project-specific basis.)
<b>Warranty</b>	10 years on structural components; 5 years on drive, battery and control systems. Extended terms available.
<b>Supplementary documents</b>	<ul style="list-style-type: none"> <li>• Original operating manual Schletter Tracking System 1V/1P – Part 1 Assembly and installation</li> <li>• Original operating manual Schletter Tracking System 1V/1P – Part 2 Operation and maintenance</li> </ul>