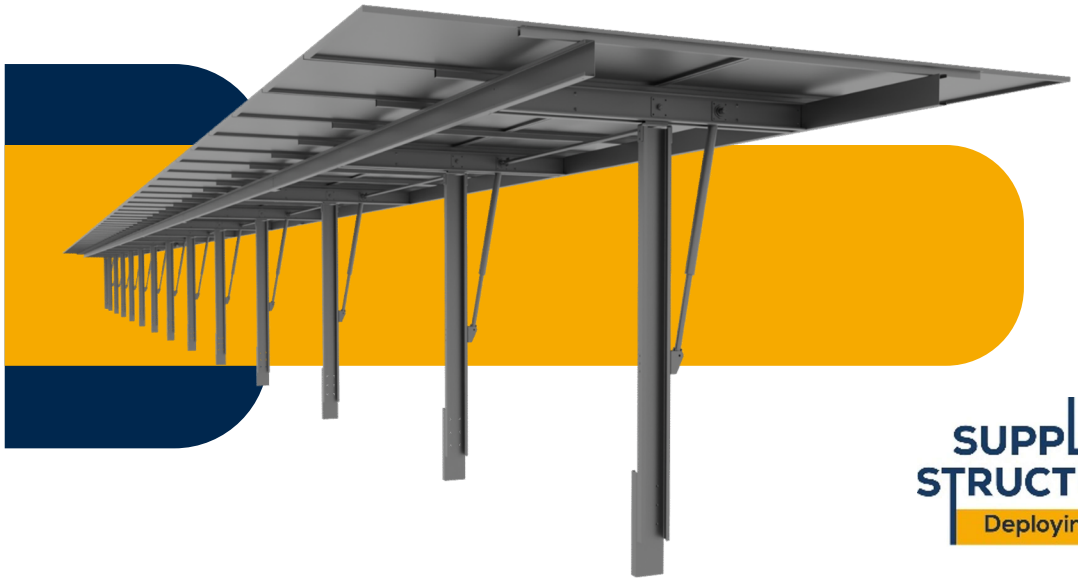
Technical Datasheet

2P - Horizontal Single Axis Tracker



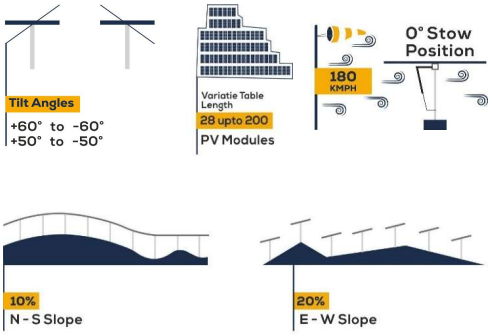
SUPPLYING STRUCTURES

Deploying Trust

Sunchaser horizontal single-axis tracker is engineered for maximum stability through a material-optimized architecture and rigorous quality assurance protocols.

By utilizing a multi-drive design principle validated by advanced wind tunnel testing from industry-leading experts, the system provides a robust, risk-minimized solution for utility-scale & AgriPV applications. This structural sophistication ensures high mechanical reliability and long-term durability even in challenging environmental conditions.

The control system provides standard tracking algorithm along with adaptive backtracking for different tracker orientations to optimize the incident sunlight on the PV modules. With a complete in-house production capability and a global delivery of over 2 GW in structures, Sunchaser is a unique partner for structural solutions for ground mounted PV systems.





- Safe Module Height - Electrical Safety and Theft Protection
- Safe Large Machinery Passage/Pesticide Sprayer

@ 2026 Sunchaser Structures
de@sunchaserx.com
www.sunchaserx.com

DESIGN SPECIFICATION	Tracker Type	2P - Horizontal Single Axis Tracker 2P-HSAT
	Drive Strategy	Distributed Multi Drive
	Drive Motor (Electric Motor)	400V Geared AC-Motor Optional - 24V Geared DC-Motor
	Power Input	400V, 50Hz, 0.55 kW per Motor Optional - 230V, 50 Hz, 240W per DC Motor
	Foundations	C-Pile Earth screw Concrete
	Operating Temperature	-20° to +55°
	Tracker-Length	Variety of tracker length from 28 up to 208 Modules
	Operating Angle	± 60°
	Module Types	all framed Modules
	Stow-/ Night Time Position	0° to 5°
	Wind-Protection	Up to 60 km/h with tracking Up to 180 km/h in storm position
	Cleaning-Position	45° (configurable)
	Ground Slope	Along length - up to 10%, Between rows – 20 %
	Design-Principles	Eurocode 0 – Basis design, Eurocode 1 – Actions on structures, Eurocode 3 – Design of steel structure EU- Machine directive 2006/42/EC
	Corrosion Resistance	min. C3
	Materials Specification	Hot-dip galvanized (HDG) Avg. 80µm / Magnelis ZM310
CONTROL SYSTEM	Controller Strategy	Independent on Each Tracker
	Table Control Unit	Time, GPS, Bi-Directional
	Tracking-Algorithm	Astronomical Algorithm (AA)
	TCU Communication	Wireless - LoRA Modbus RS485
	Monitoring-System	ChaseX Web/Cloud Based - on Subscription
	Sensoric	2 tilt sensor per Tracker Wind sensor Snow or Flood sensor
	Tracking Accuracy	≤ 2°
WARRANTY	Structure Warranty	15 Years
	Electronics & Controller Warranty	5 Years
	Drive Part Warranty	15 Years
	Corrosion Warranty	15 Years
	Spare Supply Guarantee	25 Years







