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iTracker XL: engineered for safety

iTracker XL can host up to 120 large PV modules, protecting them from aeroelastic instabilities thanks to its innovative multi-drive system



iTracker XL Larger Tracker - Better Solutions



Leading-edge tracking algorithm

- Three-dimensional backtracking for each individual tracker
- Maximised collection of diffused radiation during cloudy periods



Terrain adaptability

- Maximum flexibility for complex borders and ondulated terrains
- North South slopes up to 15%



Facilitated 0&M

- Proprietary NFC app to support fast commissioning and seamless O&M
- Large corridors facilitate cleaning operations



Optimised for bifacial and agrivoltaics

- Gap between modules minimises shadow from torque tube
- Flexible height to meet the most demanding agrivoltaic needs



Unique wireless system

- Low power consumption and long life batteries (up to 5+ days of autonomy)
- Long range communication



Ease of installation

- Fewer foundation piles per MW minimise ramming time
- Facilitated installation of PV modules to avoid height risks

Multi-driv





Wind resilience

- Multi-drive blocks protect against dynamic instability
- Locked-in horizontal stowing minimises stress on foundations





Certified quality

- Certified according to ISO 9001/14001/45001
- CE marked according to the Machinery Directive 2006/42/UE



Technical features

Tracking type	Independent single axis horizontal tracker Any tracker alignment possible (ideally along North-South direction)			
Tracking algorithm	Accurate astronomical formulas; tracking precision = 1.0°. Individually customized 3D backtracking to follow terrain undulations			
Rotation range	±60°			
Ground cover ratio	Freely configurable by customer (between 34% and 50%)			
PV Module compatibility	Framed modules; all major brands			
Module mount	2 modules portrait			
Drive system	independent motor serving a multidrive system for each tracker			
Peak power per tracker	Up to 71 kWp per tracker (with 550Wp modules)			
N° of Module per tracker	Up to 120 modules (1500 V)			
PV array voltage	1000 V or 1500 V			
Power supply	Self powered with dedicated small PV module and Li-FePO ₄ battery			
Communication	Soltigua wireless radio network			
Monitoring	Local control via SCADA; remote control available			
Foundation type	Standard: driven piles			
Wind resistance (Eurocodes)	In operation: up to 70 km/h in any position Stow position: up to 160 km/h in stow position			
Snow resistance	Up to 1'500 N/m ² ; depending on tracker version			
Tracker stowing time	\leq 6 min; 3.5 min on average			
Installation tolerances	North South: $\pm 40 \text{ mm}$ East-West: $\pm 25 \text{ mm}$ standard pile; $\pm 25 \text{ mm}$ drive pile Height tolerance: $\pm 40 \text{ mm}$ Pile tilt: $\pm 1^{\circ}$ Twist: $\pm 7,5^{\circ}$			
Ground slope	Max 15% slope in longitudinal direction (North- South) Any slope in transversal direction (East-West) [max 70% local slope for rotation clearance] Local deviation from theoretical ground profile is ± 150 mm			
Installation method	Engineered for fast and easy assembly; no welding nor drilling required on site			
Materials	HDG, Z and ZM construction steel; maintenance free bearings; triennial maintenance for slew drive			
Certifications/Compliance	CE 2006/42/UE; Eurocodes EN1991-1-1/3/4; LV 2014/35/UE; EMC 2014/30/UE ; ISO 9001-2015; ISO 14001-2015 and ISO 45001-2018			
Warranty	Structure: 10 years Drive batteries and electronics: 5 years Corrosion: 30 years in C2 atmospheric environment Warranty extension available			
Earthing	The rotating structure is connected to the ground through its drive pile; PV module frames are connected to the rotating structure with p 1 star washer for each module			



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*= reference dimensions - can change based on PV module dimensions and on project specs

Soltigua SRL reserves all rights to change any feature of its products at any moment in time without notice.