



# 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





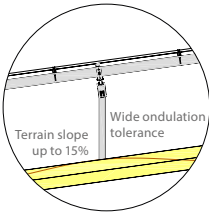
# iTracker XL

## Larger Tracker - Better Solutions



### Leading-edge tracking algorithm

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



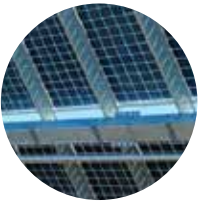
### Terrain adaptability

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



### Facilitated O&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

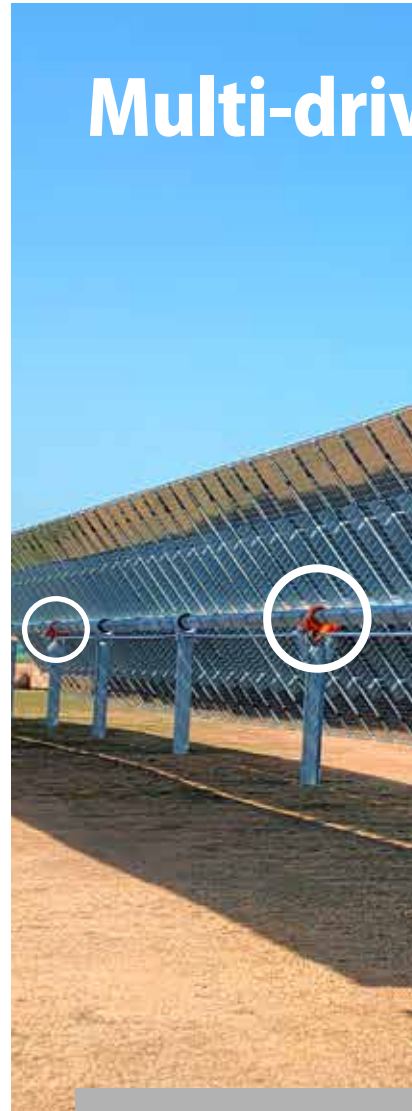
- Low power consumption and long life batteries (up to 5+ days of autonomy)
- Long range communication



### Ease of installation

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

## Multi-drive





### Wind resilience

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

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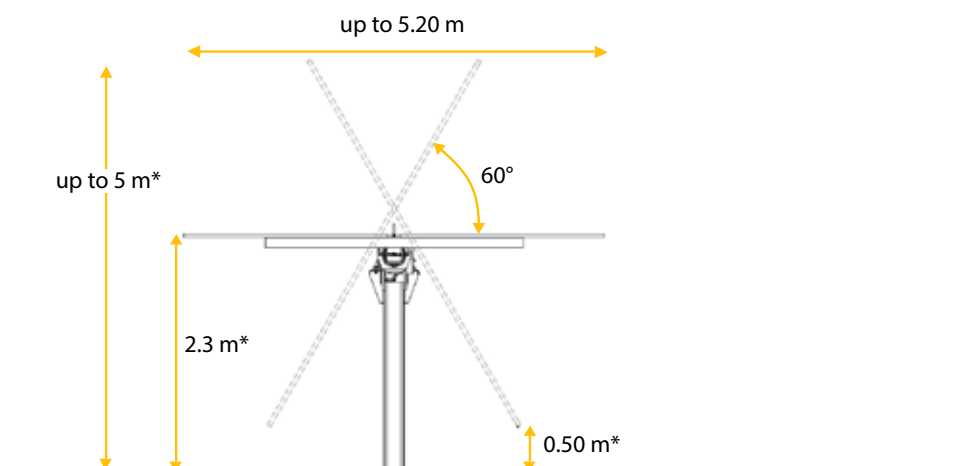
### Certified quality

- 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 <sub>4</sub> 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 <sup>2</sup> ; depending on tracker version
Tracker stowing time	≤ 6 min; 3.5 min on average
Installation tolerances	North South: ±40 mm East-West: ±25 mm standard pile; ±25 mm drive pile Height tolerance: ±40 mm Pile tilt: ±1° Twist: ±7,5°
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 n.1 star washer for each module



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



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