

TracSmart+

By Solar Steel

TracSmart+ is the definitive tracking system solution. It is a Plus in nearly everything: more reliable, more capable, more cost efficient, more adaptable. Moreover, it requires less installation and maintenance efforts.

- > MOTOR PER ROW DESIGN
- > UP TO 90 MODULES, 2 IN PORTRAIT
- > DESIGNED FOR WIND DYNAMIC EFFECTS
- > HIGH SLOPE ADAPTABILITY \pm 15%
- > REDUCED O&M COSTS
- > ADAPTABLE TO BI-FACIAL TECHNOLOGY
- > WIRELESS + SELF-POWERED

YOUR MOST RELIABLE PARTNER IN SOLAR



TracSmart+

By Solar Steel

Solar Steel

By Gonvarri
Steel Services

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Mechanical & Structural Specifications / General Features

Name/Model	TracSmart+
Tracking Type	Horizontal Single Axis Tracker
Tracking Range	± 55° standard
Module Configuration	Two in Portrait - max 90 Modules per Tracker
Supported Modules	Crystalline, Dualglass, Bifacial
General Dimensions	4m East-West / max 47,2m North-South
Tracker Height	≈ 2 m in Stow Position
Number of Piles	222 piles / MWp
Materials	HDG steel, Zn coated steel, Zn-AL-Mg coated steel
Fasteners	HDG & Stainless Steel or equivalent
Drive Type	Slew Drive
Motor Type	24V DC / <250W
Annual Power Consumption	Selfpowered Option: 0 kWh / MWp External powered: ≈ 400 kWh / MWp
Number of TracSmart+ per MW	32
Ground Coverage Ratio (GCR)	According to project specification
Land Area Required	1,5 Ha/MWp; GCR=40%
Maximum Ground Slope	15% North-South
Standard Warranty	5 Years on Control & Drive Equipment 10 Years Structure Extendable

Design Specifications

Loads	ASCE07-05, EUROCODE or Local Standards
Structural Optimization	Wind Tunnel & CFD (3rd Party Certified)



Installation & Maintenance

Connections	Bolted Connections
Installation Tools	Standard Tools
On-site Manufacturing Works	No
Foundation System	Driven Piles, Concrete Foundation or Alternative Solutions
Installation Documentation	Assembly Drawings & Installation manual

Control System Specifications

Solar Tracking Algorithm	Astronomic Algorithm SPA
Backtracking	Yes
Tracking Accuracy	± 2°
Network Configuration	Master & Slaves
Data Feed & Power Supplying	Wireless + Selfpowered
SCADA Integration	Yes
Wind Protection System	Stow Position Mechanism

Additional Services:

- > Pull Out Test
- > Logistics
- > Installation
- > Supervision
- > On-Site Training
- > Commissioning

Note: Reference Power Module: 72 cells - 350W

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