



# TECHNICAL SPECIFICATIONS

## Preliminary

### GENERAL FEATURES

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| Solar tracker type            | Horizontal Single-Axis with two rows                  |
| Tracking range                | ±50° (100°)                                           |
| Driver                        | Linear actuator                                       |
| Configuration                 | One module in portrait (1P x 60 x 2)                  |
| Solar module supported        | Framed                                                |
| Foundation options            | Direct ramming / Pre-drilling / Concrete micro-piling |
| Pile section                  | C                                                     |
| Modules attachment            | Bolts, Rivets, Clips and Trina Clamp                  |
| Piles per MW (550Wp module)   | ~303 piles/MW <sup>(1)</sup> (60 modules pe row)      |
| (450Wp module)                | ~370 piles/MW <sup>(1)</sup> (60 modules pe row)      |
| Terrain adaptability          | 15% N-S, 8% E-W <sup>(2)</sup>                        |
| Wind and snow loads tolerance | Tailored to site requirement                          |
| Rear shading factor           | 1.27%                                                 |

### STRUCTURE

|          |                                            |
|----------|--------------------------------------------|
| Material | Steel S275 & S355 (EN 10025) or equivalent |
| Coating  | HDG, Z275 (G90) and ZM310 <sup>(3)</sup>   |

### ELECTRONIC CONTROLLER SPECIFICATIONS

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Controller                     | Electronic board with microprocessor                           |
| Ingress protection marking     | IP65                                                           |
| Tracking method                | Astronomical algorithms + SuperTrack technology <sup>(4)</sup> |
| Advanced wind control          | Smart wind gust alarm                                          |
| Anemometer                     | Electric pulse/Ultrasonic                                      |
| Night-time stow                | Configurable                                                   |
| Communication with the tracker | Wired option: RS 485<br>Wireless option: LoRa/Zigbee           |
| Operating conditions           | Altitude < 5000m <sup>(5)</sup><br>Temperature: -30°C to 60°C  |
| Sensors                        | Digital inclinometer                                           |
| Power (motor drive)            | Linear actuator DC motor: 0.10 kW                              |
| Power supply                   | Grid connection / String powered / Self-powered                |

### WARRANTY (extendable)

|                               |          |
|-------------------------------|----------|
| Structure                     | 10 years |
| Driver and control components | 5 years  |

(1) Depending on layout

(2) For scenarios beyond the scope of use, please consult TrinaTracker

(3) Standard configuration. Other coating under request

(4) Includes smart tracking algorithm and smart backtracking algorithm

(5) Standard configuration. Different conditions under request

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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Version number: DS-TT-0003