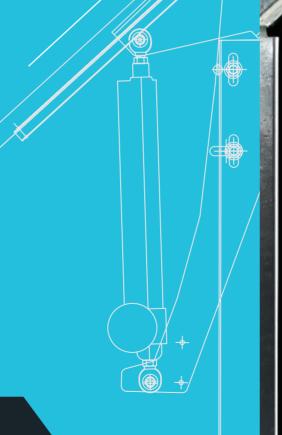
CONVERT TRJ SINGLE AXIS TRACKER

the **future** is on **track**





sales@convertitalia.com | www.convertitalia.com



BEARING TRANSMISSION

Spherical self lubricated plain bearing of Convert design to compensate inaccuracies and error in mechanical structure installation

CONTROL BOARD

Easy to install and self-configuring control board. The integrated GPS always triggers the right geographical location to the system for solar automatic tracking





DRIVEN GEAR

"Independent raw" solution, with unique independent double dust protection ring AC engine

STRUCTURE

Completely balanced and modular, the TRJ structure does not require specialized personnel for installation and assembly



CONVERT TRJ - TECHNICAL DATA SHEET

TECHNICAL SPECIFICATION

Tracker typeHorizontal single axis North-South alignment and East-West tracking with backtracking and indpendent rows

Tracking control systemControl system controlled by astrnomical clock; self-configuring; no sensor required

Maximum tracking error $\pm 1^{\circ}$ (-0,015% power max)

Control system architecture 1 electronic control board for 10 rows with GPS system integrated and anemometer for wind safety

PV-modules type Crystalline pv - modules

Number of modules per row From 30 up to 42 pv modules per row

Max. peak power per tracker Up to 13,44 kWp @ pv - modules 320 Wp

Rotation angle Up to $\pm 55^{\circ}$

Driven gear 1 linear actuator (IP65) per row: 230V -50 Hz (CE); 240V -60 Hz (CE,UL)

Power supply and consumption - GRID POWER AC input (27 kWh/year per tracker)

- SELF-POWERED from PV-modules (no battery, no grid, patented system)

Monitoring and data feeds Real-time local or remote communication data provided via ModBus from control board to SCADA

Communication - WIRE - RS485 cable between electronic control board and SCADA

- WIRELESS network

According to the local codes

Foundation Driven pile; ground screw; concrete

Grounding method Self-grounding structure

Material Galvanized steel

Ground coverage ratio Configurable on the basis of project design: from 0.35 to 0.50

Availability > 9

Warranty 10 years on structure components; 5 years on drive and control system

INSTALLATION TOLERANCE

Maximum wind speed

ASSEMBLY ERROR RECOVERY

 Height
 ± 20 mm

 North/South
 ± 35 mm

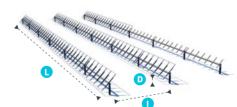
 East/West
 ± 20 mm

 Inclination
 2°

Twist 5°

Land grading ± 3° North/South; no limitation East/West

CONFIGURABLE FOR SPECIFIC PROJECT





min. dimension: 4 m

Lenght from 31 to 43 m

D Height above ground 0,35 m













PLUG & TRACK



CCONVERT

ales@convertitalia.com I www.convertitalia.co

HEAD OFFICE Via Del Serafico, 2

00142 Rome T +39 06 510 611 F +39 06 51 061 200

PRODUCTION PLANT

Via Monte d'Oro s.n.c. 00071 Pomezia (RM) T +39 06 510 611 F +39 06 51061 300