

# CONVERT **TRJ**

SINGLE AXIS TRACKER

Technical Data Sheet  
English Version

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

# CONVERT TRJ - TECHNICAL DATA SHEET

## TECHNICAL SPECIFICATIONS

<b>Type of tracking system</b>	Horizontal Single Axis Tracker with balanced structure, North-South axis alignment and East-West tracking with independent rows and backtracking
<b>Type of control</b>	Control based on an astronomical clock algorithm; self-configuring; without irradiation sensors
<b>Maximum tracking error</b>	± 2°
<b>Control System Architecture</b>	1 control board each 10 rows with integrated GPS and anemometer for wind safety - control in closed loop with encoder
<b>PV - Module Type</b>	Structure adaptable to available PV modules types on market: Monofacial and Bifacial (Thin Film, Framed and Frameless)
<b>Configurations</b>	- 1 module in portrait - 2 modules in landscape - 2 modules in portrait
<b>Rotation angle</b>	Up to 120° (±60°)
<b>Motors</b>	Linear actuator with induction AC motor (oil-free transmission) with integrated encoder
<b>Power Supply</b>	- AC power supply from auxiliary services - Selfpowered by PV string (with patented backup solution without batteries) - Smartpower by distributed inverters
<b>Monitoring and data stream</b>	Real-time communication or remote mode communication via ModBus
<b>Communication</b>	Communication between SCADA and control board: Wired (RS485) or Wireless (LoRa)
<b>Maximum wind speed</b>	In compliance with local codes
<b>Operation temperature range</b>	Standard Range -10°C / +50°C ; Extended Range Available
<b>Foundation</b>	Compatible with all widespread types: Driven Piles, Predrilled and concrete backfilled, Concrete Ballasts
<b>Electrical Grounding</b>	Selfgrounding system
<b>Materials</b>	Galvanized steel or Weathering Steel (CorTen) in compliance with site environmental conditions
<b>Occupation factors</b>	Totally configurable based on project specifications
<b>Availability</b>	> 99%
<b>Warranty</b>	10 years for structural components; 5 years for motors and electronic components (Extended warranty available)

## INSTALLATION TOLERANCES

### ASSEMBLY ERROR RECOVERY

<b>Height</b>	± 20mm
<b>Misalignment North/South</b>	± 45mm
<b>Misalignment East/West</b>	± 45mm
<b>Inclination</b>	± 2°
<b>Twisting</b>	± 5°
<b>Maximum Land Slope</b>	15% North-South; Unlimited East-West



CERTIFICAT IN°  
2545 ISO 14001  
2546 BS OHSAS 18001



Código de Producto  
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ARGENTINA



BRAZIL

**CONVERT**  
A valmont COMPANY

info@convertitalia.com | www.convertitalia.com

#### HEAD OFFICE

Via Del Serafico, 200  
00142 Rome  
T +39 06 510 611  
F +39 06 51 061 200

#### FACTORY

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

#### CONVERT DO BRASIL ENERGIA RENOVAVEL LTDA.

BH-TEC Technology Park  
Rua Professor José Vieira de Mendonça, 770  
Belo Horizonte – MG (Brasil) - Cep 31310-260  
T/M +55 31.991968699

#### CONVERT ARGENTINA DE ENERGIAS RENOVABLES SRL

Av. Córdoba 1255, Piso 2° Oficina "B"  
Buenos Aires - (Argentina)  
C1055AAC