



The BiT-1P one-in-portrait solar tracker optimizes lifetime value and performance, helping project developers and asset owners get the most from their power plant. Ideally suited for sites with challenging soils, high winds, and irregular boundaries, the BiT-1P tracker features slew driving system for maximum stability in extreme weather, equipped with dampers to ensure the stability of the system.

Features

Reliable Technology Mature >10 years

Suitable Large size Module up to 660W

Quick Installation With less components

JT-Cloud On-line O&M tools THE RELIABLE TRACKER UNDER THE SUN -- JuTracker @ BiT-1P

GREATEST RELIABILITY.

Reducing the number of sensitive components has resulted in the highest operational uptime in the industry.

With the fewest fasteners of any option, BiT-1P provides laborsaving installation, adding up to big savings. The robust mounting interface is designed and tested to withstand up to 2400 pascals.

ZERO SCHEDULED MAINTENANCE.

The tracker's gearboxes are sealed and lubricated for life, resulting in zero scheduled maintenance. All tracker rows self-calibrate twice daily, ensuring that each row is always at the optimal tracking angle. Uninterrupted module rows create a robot-ready design permitting autonomous module cleaning.



Fracking Type	BiT-1P Horizontal Single Axis (E-W)
String Voltage	1500v
Portrait Rows	1 portrait
No. Panel per tracker	Max 90 (3 Strings)
Drive Type	Slewing Driver
Notor Type	24VDC Motor
East-west / North-south Dimensions	Site / Module Specific
Array Height	1.5m Min Height Above Grade (0.5m Clearance)
Ground Coverage Ratio (GCR)	Flexible, 30 %– 50% Typical
Modules Supported	Max Module Size (L= 2.3m* W= 1.2m) ,
Fracking Angle	Up To ± 60°
Dperating Temperature Range	-25°C To 65°C
Foundation	Driven Pile , Ground Screw , Concrete
Nodule Attachment	Fastener Bracket With Integrated Grounding Attaches To Solar Module Interface Bracket Containing Pre-installed Clips
Structure Material & Coating	High strength steel(Hot dip Galvanized, Pre-galvanized, hot dip zinc aluminum magnesium alloy coated)
Allowable Wind Load	Stow Velocity 150 KM/h, 3-second Gust Exposure ; Operational Velocity 80KM/H; Customized Designs Available For Higher Wind Speeds
Nind Protection	Passive Mechanical System Relieves Wind And Obstruction Damage — No Power Required
Grounding Method	Self-grounding Structure
Corrosion Class	Standard C3 / C4&C5 on requirement
Protection Class	IP54 / IP 65 on requirement
Max. Slope	N-S 15% ; E-W Unlimited

ELECTRONICS AND CONTROLS		
Solar Tracking Method	Astronomical Algorithm with backtracking	
Control Electronics	TCU for each tracker NCU connected TCUs	
Data Feed	NCU MODBUS over Ethernet to SCADA	
Night-time Stow	Yes	
Tracking Accuracy	\pm 1° standard, field adjustable	
Power Supply	String-Powered with Battery backup (AC 120V~240V external as optional)	
Communications	Wireless Lora® (MODBUS RS485 optional)	

INSTALLATION, SERVICES & Availability		
Structural Calculations & Drawings	Yes	
On-site Training & System Commissioning	Yes	
Connection Type	Fully bolted connections, no welding	
In-field Fabrication Required	No	
Dry Slide Bearings & Articulating Driveline Connections	Self lubricating Bearing	
Availability	≥99%	
ADDITIONAL		
Daily Power Consumption per Tracker	< 0.1KWH	
Energy Gain vs. Fixed-Tilt	Up to 25%, site specific	
Warranty	10 year structural, 5 year drive & control components	

IEC 62817/UL 2703 / UL 3703 ASCE 7-10 / CE

Codes and Standards

CE









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