RelyOn Solar

SINGLE AXIS ROW TRACKER

EASY MAINTENANCE SYSTEM

- No mechanical links, each row is independent
- Maintenance free Gearbox
- Motor Frictionless Bearing
- Quick installation
- Stowage mode for wind
- Quick reset to stowage position
- Cleaning mode available for routine cleaning

FEATURES

ENHANCES PROJECT VIABILITY

- Designed to maximise Generation
- 18 - 25% higher power generation
- Each tracker unit optimises generation Independently
- Improved project IRR and reduced LCOE (Levelised Cost of Energy)
- Tracker investment payback less than 4 years

MOST FLEXIBLE TRACKING SOLUTION

- Each row individually powered by a motor

Efficient Land Utilisation

- 38 kWp | 120 modules per tracker unit
- Can be installed on 10 degree land undulation

HIGH PERFORMANCE TRACKING SOLUTION

- Accurate & Smart Algorithm for tracking true solar position
- Adaptive back tracking
- Large tilt angle (-55 deg to +55 Deg)

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TECHNICAL DATASHEET

TRACKING MECHANISM	SINGLE AXIS ROW TRACKER
Maximum No of Modules on a Single Tracker	100-120 Nos ; customisation based on plot area and design voltage is possible.”
Tracking Range	110^0 (+/-55^0)
Tracking Algorithm	Astronomical Algorithm
Stowing Mechanism	Safety stowing position max 3.5 min with self contained battery backup
Power Backup	Each row is independently operated and backed by VRLA batteries
Source of Power	No separate auxillary source required, power will be drawn from module assembly
Annual Power Consumption	70 kWh/tracker unit
Nigh Stowing Mode	Tracker will be at safe position during night
Cleaning Mode	Can be set at convenient position for cleaning
System Voltage	Designed for 1000 V or 1500 V
Backtracking	Independent backtracking for each row
Ground Slope	Compatible upto 10^0 N-S Gradient
Wind design	Designed to withstand 150 KMPH wind speed, customization is possible for higher wind zones
Structure Material	MS – Hot Dip Galvanized
Bearings	Frictionless bearing with low maintenance and easy replacement
Drive System	24 V BLDC motors of 120 W.
Controller Type	ARM based Controller with in-built tilt sensor
Controlling Mechanism	Master/Slave type
Communication Type	RS-485 , Ethernet
Installation Procedure	Rapid on-site installation, no onsite welding required.
Performance Monitoring	Remote monitoring with SCADA is possible
Warranty	5 Years

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