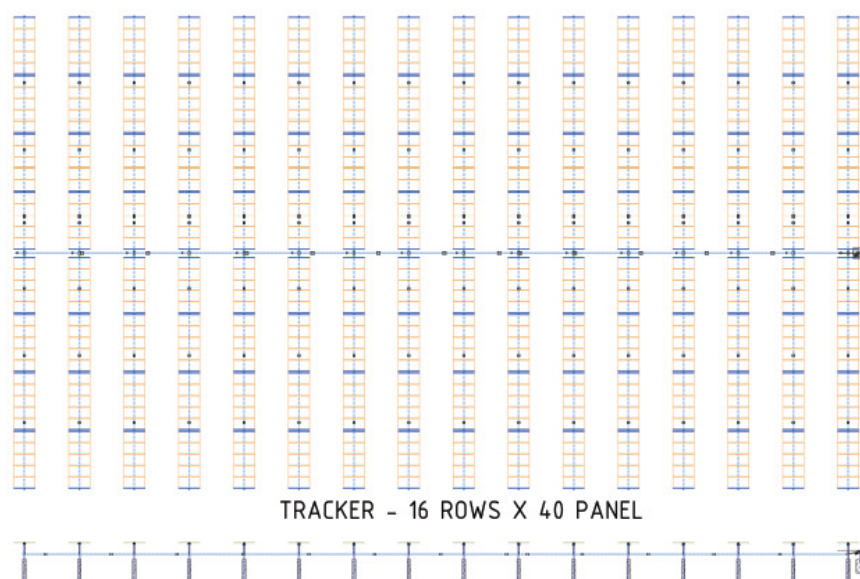


GANGED HORIZONTAL SINGLE AXIS TRACKING SYSTEM



A maximum of 16 rows are ganged together mechanically. The ganged rows are driven by a single linear actuator (worm gear screw jack) with 0.5 hp capacity AC motor. A maximum of 40 modules can be mounted on each tracker row. The sun is tracked from east to west with provision for back tracking to avoid proximal shadow losses. The ganged tracking system makes a large number of modules work together to lower the system cost with a gain in energy of up to 20% compared to fixed tilt system, thus increasing the project IRR.

Tracker Model	ST-T0-GL-16X40
Version	GL-00
Module Assembly Area per row	84 sq.m.
Module Assembly Arrangement	Potrait/40 Modules
Module Reference	1956mm*992mm/1650mm*992mm
rows per Tracker	16
Nominal DC capacity per ganged block	201.6 KwP
Drive Type	Worm gear screw jack
Tracking Accuracy	≤1°
Tilt Angle	0°
Tracking Angle Range	±45°
Max. Operating Wind speed	34m/s (120kmph)
Max. Wind speed at Stow Position	44m/s (160kmph)
Working Temperature	-40°C to 60°C
Motor Power	230V, 370W (Self Powered)
Material	Hot Dip Galvanized Steel
Controller	PLC
Tracking Principle	NREL USA derived Tracking Algorithm
Communication interface	RS485
Electronic Control Cabinet	IP65, Weather Proof
Control	Auto/Manual
Back Tracking	Yes
Auto Reset	Yes
Night Reposition Function	Yes

*Above Specifications are subject to change without notice

SYSTEM ADVANTAGES

Maintenance Free Design

PTFE bearings used are maintenance free and long lasting.

Smart Control

Each controller manages two ganged tracker blocks.

Site Installation

Simple assembly and rapid installation results in reduction of installation cost and compression of construction schedule.

Self-Powered Controller

The self-powered controller eliminates need for auxiliary AC power for actuator driving mechanism.

Back Tracking

The intelligent back tracking algorithm increases energy output by avoiding proximal shadows.