

ALL TERRAIN TILT SINGLE AXIS TRACKER

TRACKER SPECIFICATIONS

Tracking Type	Linked tilt single axis tracking
Max Tilt Angle of North-South Component	25°
Solar Module Supported	Most commercially available, including frameless thin wall, Bifacial modules, 72 cells silicon module preferred
Nominal DC Power of Tracker	2.915-3.025KWp
Drive Type	Linear actuator
Corrosion Protection	Hot-dip galvanized steel, anodized Aluminum
Power Supply	AC220V, 150W
Daily Energy Consumption	< 0.2kWh
Wind Protection	Stow when wind speed > 72km/h (~45mph)
Max Stow Time	< 3.5min
Max Working Wind Speed	72km/h (~45mph)
Max Wind Speed	169km/h (~105mph)
Operation Temperature	-30°C (-22°F) to 60°C (140°F)

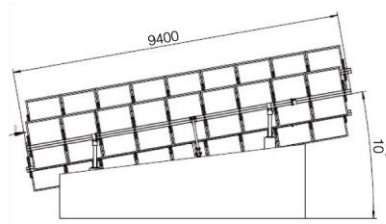
CONTROLLER SPECIFICATIONS

Tracking Azimuth Angle	-45° ~+45° standard,
Control System	MCU
Control Algorithm	Astronomical algorithms + tilt sensor close loop
Tracking Accuracy	< ± 2°
Shadow Avoidance Tracking	Yes
Communication Interface	Modbus/RS485
Night Position	Yes

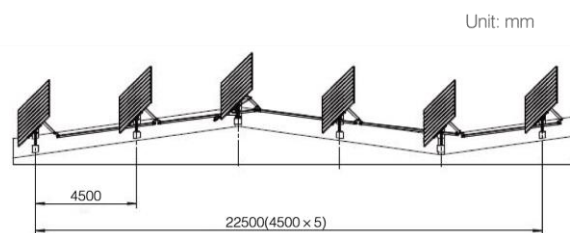
FOUNDATION TOLERANCES

North-South	± 50 mm
East-West	Single axis pole ± 50 mm
Height	Same column: ± 50 mm,

Example Drawings:



Side View



Front View

*All specifications subject to change