

TILT SINGLE AXIS TRACKER

TRACKER SPECIFICATIONS

Tracking Type	Linked tilt single axis tracking
QTY of Linkage Units	1-20
QTY of Modules on 1 Axis	8-11
Drive Type	Slewing drive
Corrosion Protection	Hot-dip galvanized steel
Power Supply	AC220V, 150W
Daily Energy Consumption	< 0.2kWh
Wind Protection	Stow when wind speed > 72km/h (~45mph)
Module Support	Most commercially available
Max Stow Time	< 5min
Max Working Wind Speed	72km/h (~45mph)
Max Wind Speed	144-170km/h (90-105mph) ; configurable to higher wind loads
Operation Temperature	-30°C (-22°F) to 60°C (140°F)

ELECTRONIC CONTROLLER SPECIFICATIONS

Tracking Azimuth Angle	45° standard, 50° available
Control System	MCU
Control Algorithm	Astronomical algorithms + tilt sensor close loop
Tracking Accuracy	< ± 2°
Backtracking	Yes
Communication Interface	Modbus/RS485

FOUNDATION TOLERANCES

North-South	± 30 mm
East-West	± 30 mm
Height	± 40 mm

*All specifications subject to change

Example Drawings

