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## 5kW Dual Axis Solar Tracker

Some of the Advantages of the Commercial Solar Tracking System include:

- Estimated additional 30% to 40% more generation than a conventional fixed solar array.
- 240deg azimuth rotation (east to west).
- Computer based finite element structural analysis to ensure strength where it is needed.
- An ultra-heavy slewing ring.
- Smooth and powerful electric motion.
- Ultra reliability and low maintenance.
- Rugged enough to with stand decades of continuous operation, and
- No complex mechanical linkages or High voltage electrical components.

The Trackers are fitted with wind speed anemometers to automatically tilt the array horizontal if wind speeds of 60kph are reached.

## Example - Standard 5kw dual-axis PV array

- Number of PV Modules: 20 x 250W\*
- Inverter: optional to 5000W
- Annual Yield (Static) 7,665kWh  
(Based on CEC figures of 1kw producing 4.2 kWh per day).
- Annual Yield (Tracking) 10,348kWh  
(Dual Axis tracking adds 30% to 40% to solar yield).
- \* Standard Tracker Designed to suit 20x industry standard 250w panels (1650 x 990 x 50mm). Other panels quoted on request.

## Installation

- Machine bolts directly to concrete slab supplied by customer.
- Engineer's drawings for slab, and anchor bolts sent to site upon purchase/before system delivery.
- Cement slab: Pillar Design or Standard Box depending on Wind Zone.
- Area: Requires only an 8m diameter of clear land.

## Construction

- Superior structural design to suit Australian conditions.
- Ultra Heavy Duty Slewing Ring: Rated 16 tonne Capacity.
- All fabricated components galvanized to Australian standards.

## Tracking

Sun sensor operation using a very simple and reliable all-in-one low voltage controller. Optional central control system and ethernet connection to additional arrays in a solar farm installation

Movement (azimuth) electric motor slewing drive capable of 6.5Kn.M output torque (4794 lb.Ft) and a holding torque of 38.7Kn.M

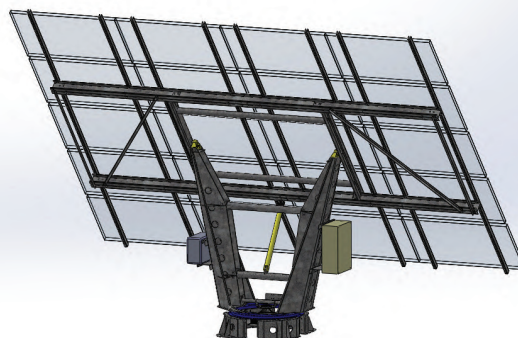
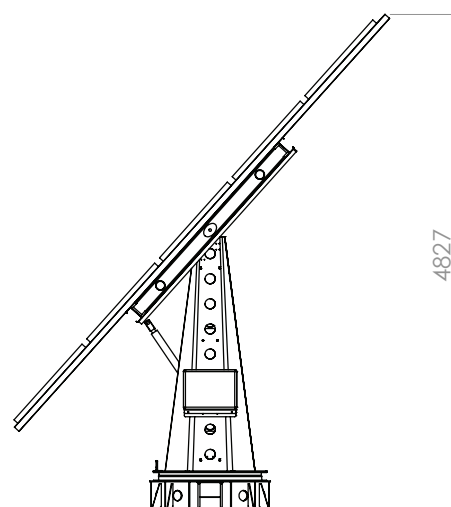
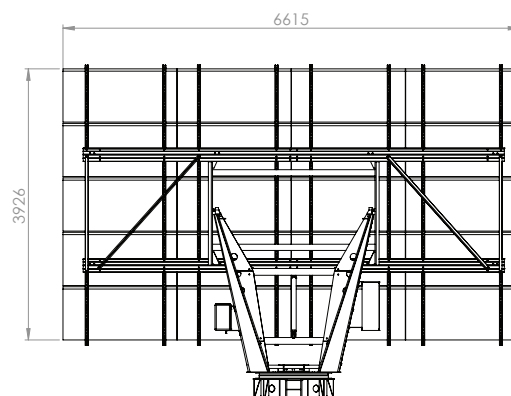
Movement (elevation) powerful Danish Made LINAK linear actuator capable of 1000kg of force.

Machine automatically reverts to horizontal position overnight and in high winds.

240VAC input to run tracker.

24VDC optional with battery backup recharged by solar.

Ideal for stand alone systems.



**Contact Commercial Solar Today**  
**Commercial Solar - *The power to save***

**Designed and manufactured in Australia by  
Australians, Our manufacturing company  
has been in operation since 1944.**

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