



# **Smarrtrak Rooftop System Brochure**





### **Features:**

- Simple, Powerful, Reliable and Scalable solution.
- Energy generation is 23% higher than the fixed.
- Tracker motor power consumption is less than 0.1% of energy generation.
- Highly reliable processor based design with zero-error sun position calculations.
- Less structural steel and easy plug and play foundations.
- Low maintenance costs - weather resistant material and less moving parts.

Rooftop Tracking System		
Annual Energy Increase	Over-flat PV	Upto 45%
Operating Specifications	Array Level Tracking Accuracy	+/- 1° (typical) (Includes allowances for actuation, manufacturing, panel mounting, installation and ground settling tolerances when the product is installed.)
	Range of Motion	+/- 45° from zenith (customizable)
	Tracking Method	Time-derived astronomical positioning with back tracking and Shade Avoidance Technology
Installation Zoning	Wind (Withstanding)	160 Kmph
Hardware Components	Dimensions	Length: Varies by site
		Height: Varies by site
		Width: Varies by Panel
	Weight	Varies by requirement
	Panels Supported	Supports nearly all panel types with frame
	Panel Attachment Method	Bolting from bottom to ensure no shading
	Included	Horizontal beams, bearings, vertical post caps, panel mounting brackets and hardware, actuator assembly, tracker grounding hardware and controller.
Stowing	Wind Stow Method	Manual Switch between stowing and normal operation. Uses anemometer for emergency wind stow
Installation Zoning	Configurations	0° and 45° user-initiated stowing for inspection, panel cleaning and grass maintenance, 0° autonomous stowing at night.
Controller Specifications	Architecture	Centralized controller with microprocessor
		Operated on a network for high-level field control and supervision as well as internet-cloud based remote monitoring.
		Tracker position can be monitored through wireless protocol
	Shade Avoidance Technology	Included in the controller
	Motor and Controller Energy Consumption	50 Watt-hours per day
Warranty		5 years warranty on all tracking systems, extendable to 25 years at a reasonable cost