



**Smarrtrak
Dual Axis Tracker
Brochure**





Features:

- Taps upto 45% additional energy compared to fixed systems at 10% less cost.
- Intelligent microprocessor for zero error sun position calculation and panel rotation.
- Unique architecture enables space below the tracker to be used for parking or rearing livestock or even to create a natural habitat.
- Reliable and rugged structural designs with 5 year warranty, extended upto 25 years.
- Online control of trackers - enables to remotely monitor and control the trackers.

Helios D10 - Dual Axis Tracking System

Annual Energy Increase	Over-flat PV	Upto 45%
Operating Specifications	Array Level Tracking Accuracy	+/- 0.3° (typical)
	Range of Motion	+/- 60° from zenith and 0° to 360° azimuth (limits applicable as per the site co-ordinates)
	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 60° 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	100 Watt-hours per day (typical)
Warranty		5 years warranty on all tracking systems, extendable to 25 years at a reasonable cost