Smarttrak
Tracker Control System
Brochure

Features:

- Each control system drives upto 144 KWp tracker.
- Auxiliary power consumption is less than 0.1% of energy generation.
- Actuator and motor track requirements for performance, strenght and reliability.
- Online control of trackers - enables to remotely monitor and control the trackers.

Tracker Control System		
Annual Energy Increase	Over-flat PV	Upto 45%
Operating Specifications	Array Level Tracking Accuracy	+/- 1^0 (typical) (Includes allowances for actuation, manufacturing, panel mounting, installation and ground settling tolerances when the product is installed.)
	Range of Motion	+/- 45^0 from zenith (customizable)
	Tracking Method	Time-derived astronomical positioning with back tracking and Shade Avoidance Technology
Installation Zoning	Wind (Withstanding)	160 Kmph
Stowing	Wind Stow Method	Manual Switch between stowing and normal operation. Uses anemometer for emergency wind stow
Installation Zoning	Configurations	0^0 and 45^0 user-initiated stowing for inspection, panel cleaning and grass maintenance, 0^0 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	0.7 Kilo Watt-hours per day (typical)
Warranty		5 years warranty on all tracking systems, extendable to 25 years at a reasonable cost

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