



Solargik Agri-PV Solutions

Data Sheet



Up to 5m / 16ft
high



Slopes up
to 30%



Increased
energy density



Eliminate
earthwork



Optimized
tracking accuracy



Smart monitoring
& control

Versatile Agri-PV Tracking Solutions

Balancing Agriculture and Energy Production

Solargik's integrated Agri-PV systems combine intelligent solar tracking algorithms and versatile tracker structures to overcome modern agrivoltaics challenges: uneven terrains, competitive costs and optimized sunlight distribution.

Optimized for Agriculture

Elevated Structures Without Elevated Costs

Purpose-built for agriculture, Solargik's elevated trackers reach up to 5 meters (16 feet). Our simplified, modular design preserves land usability, reduces structural weight by up to 30%, and streamlines installation – ultimately lowering CAPEX and maximizing system performance.

Flexible Land Deployment

Zero Earthwork Deployment on Uneven Terrain

Solargik's modular trackers install easily on sloped or uneven terrain – no grading required. Each tracker table adapts to natural land contours, preserving soil integrity and supporting active crop growth. Our experienced team specializes in designing for agricultural environments, ensuring fast, low-impact deployment tailored to your field layout and construction needs.

SCADA for AgriPV

Intelligent Sunlight Distribution

SOMA Pro™, our Agri-PV SCADA, uses real-time agricultural sensor data, weather forecasts, and crop models to dynamically adjust tracker angles. Balance sunlight between agricultural needs and energy generation, backed by pre-deployment modeling to boost project bankability.





Structural & Mechanical	
Architecture	2-in-Landscape Tracker length: 8-24 modules Tracker height: 1.3m – 5m / 4.2ft – 16.4ft
Tracking range	–60° to +60° (increased range optional)
Integrated drive unit	Grid powered (low voltage DC) / Self-powered with battery back-up
Drive type	Stepper motor with three gear cascade
Total weight	9.5kg / 21lbs
Foundations	Compatible with all foundation types
Materials	Pre-galv steel, HDG steel and other coatings as required
Slope	N-S: up to 30% E-W: Any slope
Ground coverage ratio (GCR)	Typical range 30–65%
Wind Speed	ASCE 7-22 Standard operating wind load 170kph / 105mph (3-sec. gust) Special Design up to 240 kph / 150mph (3-sec. gust)
Wind protection	Automatic stow
Tracking Accuracy	2°
Operating Temperature	–25°C to +50°C / –13°F to 122°F

Agrivoltaics Tracker	
Height	up to 5m / 16ft, special design up to 6.5m / 21ft;
Tracking range	–60° to +60° (90° optional)
Agrivoltaics tracking method	Customizable anti-tracking
Agrivoltaics SCADA System	Agricultural monitoring and control, ability to set shading plans, model crop irradiance, and integrate agricultural sensors
Agricultural Station	Sensor integrations: PAR, air temperature and humidity, dendrometer, rain, soil humidity, and additional sensors available via data logger
Services	Agricultural irradiance modeling and site planning

Testing & Certifications	
Certifications	IEC 62817 CE
Third party assessments	RWDI wind tunnel testing for standard & elevated trackers Black & Veatch bankability assessment

Tracker & Site Control

Tracker controller	Individual tracker control module electronics & embedded software
Site control	Central and zone controllers
Communication	Wifi 2.4 GHz, WiFi Mesh, ethernet between central and zone controls
Tracking method	Astronomical algorithm, backtracking, smart backtracking, and diffuse optimization
Solargik SCADA System – SOMA Pro™	Solargik SCADA system with web-based monitoring and control platform, optional Agri-PV control interface
SCADA Interface	SOMA Pro™ site control, optional Modbus API to third-party SCADA
Sensors	Standard: irradiance, wind speed, PTZ camera viewable via SOMA Pro™; Optional: wind direction, snow sensor

Installation, Service & Warranty

Maintenance	Zero scheduled maintenance, SOMA UI for monitoring and control
Warranty	Structural – 10 years Drive unit – 5 years
Installation	Simple on-site installation with pre-assembled drive unit
Services	Preliminary layouts and site design optimization Structural calculations and foundation design Installation and commissioning support



Wind Tunnel Testing



BLACK & VEATCH

Independent Assessment



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solargik.com · sales@solargik.com

