



**IoTtech Smart**  
PRODUCTS PVT. LTD.

# Bright Tomorrow Begins

**IoTTECH SMART PRODUCT PVT. LTD. leads in solar solutions for all sectors, committed to a sustainable future through global renewable energy adoption and emissions reduction**

Contact us  
for more info



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Our Solar Sun Tracker optimizes solar panel efficiency with dual-axis tracking, following the sun's movement horizontally and vertically. Algorithm based sensors detect sun position accurately, enhancing tracking precision. The intelligent control system, coupled with weather sensors, dynamically responds to conditions for increased efficiency. Backtracking prevents shading, and remote monitoring allows easy control. This system ensures optimal exposure, making it a reliable solution for maximizing solar panel performance.



## Solar Panel Installation

Designing and installing solar panel systems tailored to the specific needs and energy requirements of the client's property.



## Custom System Design

Creating customized solar energy systems that optimize energy production and meet the client's energy goals and budget.



## Solar Panel Maintenance

Offering regular maintenance services, including cleaning, inspection, and system monitoring to ensure optimal performance.



## Site Assessment

Assessing sites for solar panel feasibility, considering roof condition, shading, and sun exposure



## Financing and Incentive Assistance

Assisting clients in securing financing options, incentives, and rebates to make solar panel installation more affordable.



## Battery Storage Solutions

Providing energy storage solutions, such as solar batteries, to store excess energy for use during cloudy days or power outages.



# SPECIFICATION

## GENERAL AND MECHANICAL

Architecture	Horizontal single-axis, independent row, independently balanced
Configuration	Single Module and Multiple Modules
Tracking range of motion	Options for $\pm 60^\circ$ or $+50^\circ$
Row Size	Configurable per module type, string length and site layout
Array Height	Configurable according to site
Drive type	Actuator
Modules supported	All utility-scale crystalline and thin-film modules
Structural connections	Engineered fastening system, vibration-proof
Materials	Galvanized steel; other coatings available
Foundations	Complete range of foundation solutions available
Ground coverage ratio (GCR)	No specific limit Typical range 25-45%
Operating temperature range	SELF POWERED: $-30^\circ\text{C}$ TO $55^\circ\text{C}$ ( $-40^\circ\text{F}$ to $131^\circ\text{F}$ ) AC POWERED : $-40^\circ\text{C}$ to $55^\circ\text{C}$ ( $-40^\circ\text{F}$ to $131^\circ\text{F}$ )
Wind speed	Configurable up to 240 kph (150 mph) 10m, 3-second gust
Wind protection	Intelligent wind stowing with symmetric damping system

## ELECTRONICS AND CONTROLS

Solar tracking method	Algorithm with backtracking standard.
Tracker controller	Smart Controller
Power supply	SELF POWERED : Standalone smart solar power
Communications	LORA and DATAHUB Based Communication
Defensive stowing functions	Strong Wind, loss of grid power
Operator interface	MODBUS, Wifi and Mobile application

## WARRANTY

Warranty	10-year structural, 5-year drive and controls standard; extended warranty available
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