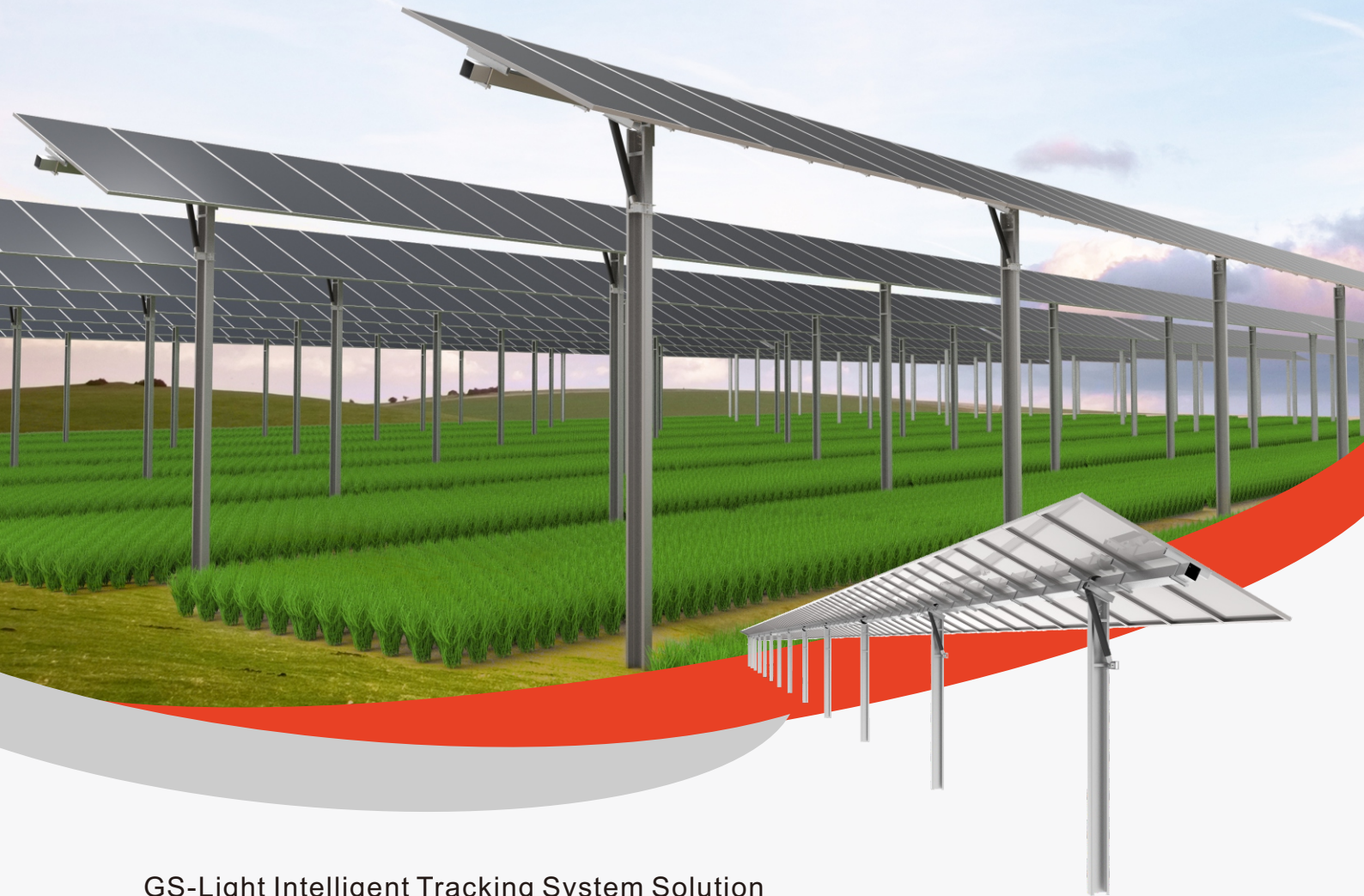




GS-Light Intelligent Tracking System Solution

AGRIVOLTAICS TRACKER

● System Introduction

The photovoltaic tracking system independently developed by Grace Solar is unique and highly reliable. The system integrates new-generation information technologies such as AI, Internet of Things, energy storage, energy Internet, and intelligent manufacturing. Using the most advanced wind tunnel design, it can adapt to multi-tilt protection strategies, with astronomical tracking algorithm, shadow-avoid tracking mode, strong wind protection system, lightning protection design, anti-torsional stability system, wireless remote control and other functions to ensure safety Under the premise of balance, the conversion efficiency of solar modules can be improved.



Independent Single Row-1P

● Features



Two artificial intelligence

600W+

600W+ Module

AI

AI control

2.5m

Match module length up to 2.5m



Reliable and safe communication

LCOE

Reducing LCOE cost



Extreme Weather protection

20%

Slope can be adapted to 20%



Wind Tunnel Test Report

25%

Improving the efficiency by 15-25%

● Suitable Power Plant Project

It is suitable for various power plant projects, especially in powerplants with double-sided modules or high civil construction costs.



Complex Terrain



Farmers Light Complementary



Fishing Light Complementary



Large Flat Ground Power Plant



Typhoon And Highly Corrosive

● Technical Information

Mechanical Aspect		Electrical Aspect	
Number of tracker drive modules	1X72	Drive way	Slew Drive / Linear actuator drive
Number of motors per tracker	1-5	Motor Power	150W
Tracking range	±60°(Customizable)	Flat time	< 8minutes
Material	Hot-dip galvanized steel + aluminum-magnesium-zinc plate + pre-galvanized	Controller	MCU
East-west land slope	Unlimited	Control tracking accuracy	<2°
North-south land slope	<18%	Control mode	Independent GPS time control + tilt sensor hybrid control
Module arrangement	1P or 2L	Limit protection	Mechanical limit + motor hard limit + soft limit
Ground clearance	> 500mm, (Customizable)	Motor protection	Overheat protection, overcurrent protection, self-locking protection
Foundation form	Ramming pile, PHC pile, concrete foundation	Operating temperature	-40~+70°C
Standard wind speed	< 47m/s, 3 seconds gust, (Customizable)	Protection level	IP65
Protection wind speed	18m/s	Power consumption	<0.02kWh/day
Mechanical tracking accuracy	±2°	Power supply	Self-powered supply / external power supply
Land occupation rate	30%	Communication method	LoRa/Zigbee wireless communication or RS485
Grounding method	Self-grounding	Signal transmission method	Wired/wireless optional