LUMINA SINGLE AXIS TRACKER-1P

BETTER TERRAIN ADAPTABILITY
Updated Mounting

Reduces the damage caused by uneven foundation and self-adapted up to 15% n-s slope

IMPROVEMENT OF STRUCTURAL SAFETY OBVIOUSLY
Patented Shrinkage Process

The 10-wire clearance is safer and more stable than the traditional hoop process

SUPERIOR DESIGN FLEXIBILITY

Compatible with all module types and optimized layout

MORE POWER GENERATION
Solar Tracking Algorithm

Adranced AI Algorithm to increase extra 1-3% power generation

GENERAL & MECHANICAL

Architecture	Horizontal, Single-axis, Independent row
Configuration	1×Module in portrait
Tracking Range & Accuracy	±60° ⩽2°
Tracker Size	Length×Width 140m × 2.5m (max.)
Array Height	Rotation axis elevation 1.5m (standard)
Ground Clearance	Modules lower edge 0.5m（standard）
Ground Cover Ratio (GCR)	⩾25%
Tracker Capacity	90×Modules/Tracker; 63.9KW per row(according to 710W module)
String Voltage	**300V~1500V**
Foundation	Direct Ramming Piles Drilling+Piles in Concrete Concrete Foundation
Materials	Galvanized steel (standard) Zn-Al-Mg coated steel (optional)
Corrosion Protection	ISO 12944 C3 (standard) C4 / C5 (optional)
Wind Speed	ASCE7-22 52m/s (max.) Adjustable on request
Wind Protection	Electrical Multi-Point Drive Enhanced Architecture
Slope Tolerance	15% N-S & 15% W-E(max.) Adjustable on request
Warranty	Structural components 10 years

ELECTRONICS & CONTROLS

Control Algorithm	Astronomical+terrain,rainy AI algorithm
Stow Position	Night/Wind/Snow
Sensors	Anemometer + Inclinometer
Controller	1×Controller/ Tracker Self Powered + Backup Li-ion battery
Drive Method	High Accuracy Multi-point Slew Gear
Motor	3×Motors/ Tracker DC 24V Self Powered
Power Consumption	0.026kW/day
Communication	Wireless Zigbee/Lora Cable RS485
Operation Environment	Temperature -30℃~+60℃ Altitude 3000m
Warranty	Electrical components 5 years

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