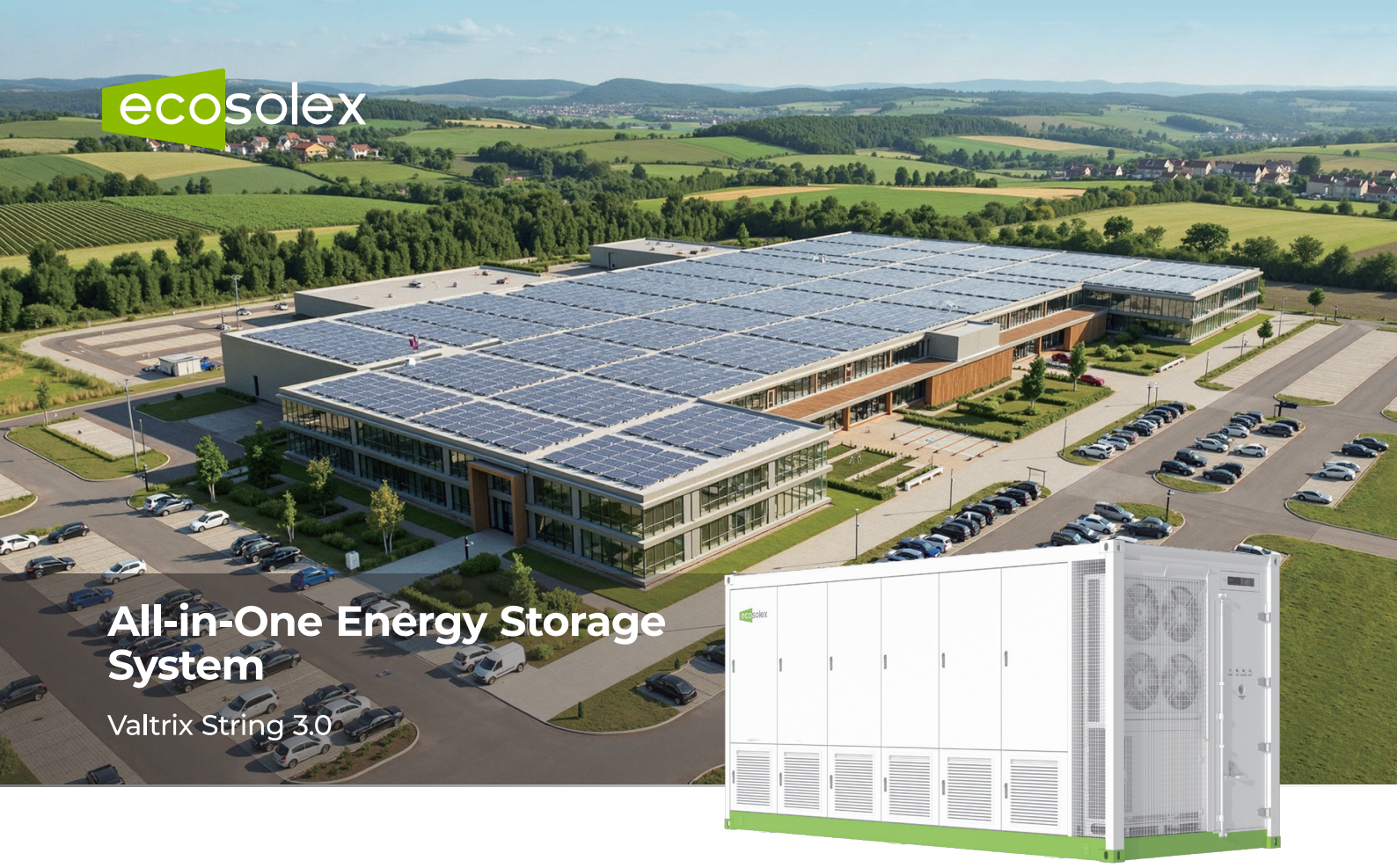

All-in-One Energy Storage System

Valtrix String 3.0

Superior Yield & Efficiency

- One Cluster One PCS design with zero circulating loss
- Extreme active balancing control to ensure high cell consistency
- Lifetime discharged energy increased by over 10%
- AI-driven cloud platform for rapid response and VPP trading

Multi-Level Ultimate Safety

- Dual-layer fire suppression system from pack to cabinet
- 360-degree predictive safety diagnostics via multiple sensors
- Comply with international standards such as UL9540A, IEC 62619, and UN38.3
- Explosion-proof design with active ventilation system

Precision Thermal Engine

- Tier 1 314Ah LFP battery cells with high thermal stability
- Superior thermal management system increased lifecycle by over 25%
- IP55 & C5 anti-corrosion level suits for high salt-spray environments
- Adapt to extreme temperature conditions (-30°C~50°C)

All-in-One Agile Deployment

- All-in-One integrated design with self-developed BMS, PCS, and EMS
- Ultra-high energy density (217.5 kWh/m²) for over 26% land savings
- Block-based flexible expansion from 1.56MWh to 3.13MWh
- Pre-assembled & factory-tested for plug-and-play installation

About Ecosolex

As a sub-brand of Shenzhen Topband Co., Ltd., Ecosolex delivers advanced solar, storage, and charging solutions for residential, commercial, and industrial use. Backed by Topband's decades of expertise, over 2,000 research professionals, and more than 3,200 patents, we provide reliable, safe, and sustainable energy systems. With 15 global production and R&D bases, Ecosolex empowers customers worldwide to achieve energy independence and contribute to a greener, more sustainable future.

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All-in-One Energy Storage System

Valtrix String 3.0

Battery Parameters (DC side)	
Battery type	LFP 3.2V/314Ah
Rated energy @BOL	3.134MWh
Module configuration	1P260S*12
DC cabinet capaciity @BOL	261kWh*12
Rated voltage	DC 832V
Battery voltage range	DC 728V ~ 936V
Balancing method	Active balancing
Rated output power	1500kW
Grid Connection Parameters (AC side)	
AC Connection	(3W+N) three-phase four-wire system
Rated AC output frequency	50/60Hz
Total harmonic distortion (THDi)	≤2% (at rated power)
Power factor	0.99
Rated AC output voltage	400V (-15%~+15%)
System Parameters	
Dimensions (W*H*D)	6058*2896*2438 mm
Approx. weight	≈30t
Operational Modes	Grid-connected/Off-grid Support
Max. charge/discharge rate	≤0.5C
Max. round-trip efficiency	≥90%
Enclosure rating	IP55
Corrosion Protection Class	C4 (C5 Optional)
Operating temperature range	-30 ~ +50°C (>45°C derating)
Operating humidity range	0 ~ 95% (No condensation)
Max. operating altitude	3000m (>2000m derating)
Cooling method	Liquid cooling (Water-Glycol medium)
Fire suppression system	Multi-layer: Combustible gas, smoke & temperature detection; Ventilation; Aerosol (Pack & Cabinet level) + Water-based fire extinguishing
Communication protocols	MODBUS-TCP / CAN / RS485
Certificates	IEC 62619, IEC 62477, IEC 61000, UL9540A, EN 50549-1, UN38.3

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