

DELTAX | BESS SOLUTIONS

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DELTAX

BESS SOLUTIONS



X-Hyperion / X-Orion / X-Polaris / X-Vela

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Through seamless vertical integration of design, manufacturing, and software,

DELTAX accelerates innovation without compromising quality.









Applications	58	Registered	14	Papers Accepted	21

2026	Exhibited and presented at CES 2025
	Renewed Professional Research Company Certification (Engineering R&D) by MSIT
	Established DeltaX China Subsidiary (Shanghai)
	KDB NextRound in Silicon Valley IR Pitching
	Joined the Korea-India Emerging Market Trade Mission
	Participated in the K-AI Startup India Market Entry Program
	MOU with SoftBank Group for data center ESS development and manufacturing
2025	Exhibited at CES 2025 Eureka Park
	Achieved ISO/IEC 27001:2022 Certification (Information Security for AI Solution Development)
	Established DeltaX India Subsidiary (Hyderabad)
	Renewed Startup Enterprise Certification by Seoul Regional SMB Administration
	Acquired AI Factory Specialist Verification from KEIT
	Achieved ISO 9001 Certification (Software Development, Secondary Battery Pack Development & Manufacturing)
	Exhibited and presented at TNGSS 2025
	Selected as the Top Performing Company at Seoul Startup Hub Scale-up Center Pitching & Connect
2024	Renewed Venture Enterprise Certification (R&D Type)
	Participated in KDS 2024 Conference
	Partnered with SK On for Next-Generation Domestic & North American BESS Development
2023	Acquired Professional Research Company Certification (Engineering R&D) from MSIT
	Received Ministerial Commendation for Startup Promotion from MSS
2022	Final Selection for Hyundai & Kia '2022 Open Innovation Lounge'
	Ranked 2nd Place in the 'Object Detection Challenge' at ECCV
2021	Acquired AI Technology Certification from KAAI
	Ranked 1st Globally in 'Instance Segmentation' at ICCV
2020	DeltaX Founded
	Minister's Award at the AI Championship 2020 (MSS)
	Grand Prize at AI Testbed Korea Industrial Intelligence Competition (Gwangju-Jeonnam MSS)
	President's Award at the 'Dreaming AI' Solution Competition (GIST)

X-Hyperion




Utility ESS

A high-density modular ESS solution integrating 7.7 MWh of energy capacity into a standard 20-ft container.

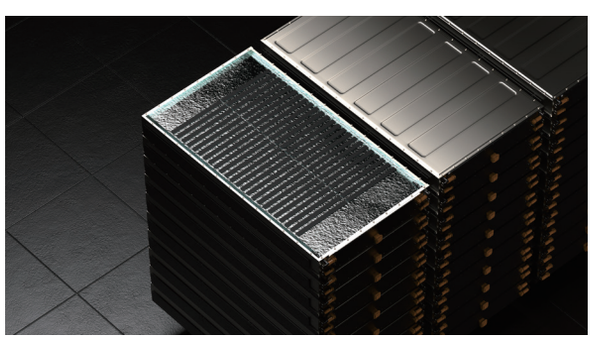
High-Density Modular Battery System

Integrates 7.7 MWh of energy capacity into a standard 20-ft container with LG Energy Solution's 648 Ah battery cells, delivering high energy density and flexible expansion.



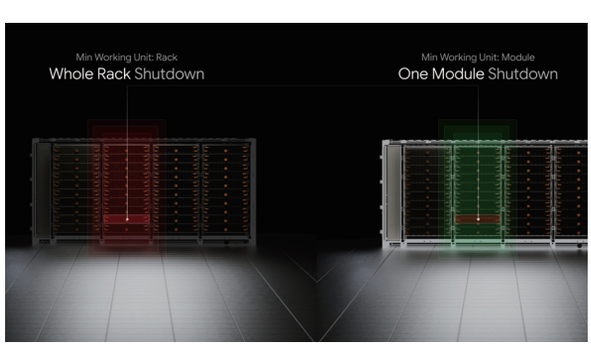
Dual Thermal Management System

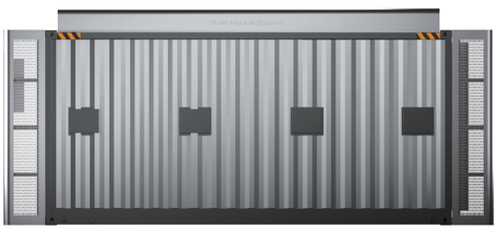
A dedicated liquid cooling system and independent HVAC effectively manage heat across key components, ensuring optimal operating temperatures.



Multi-Layer Fire Safety System

A multi-layer fire safety system integrates early off-gas detection, automatic fire suppression, gas venting, and pressure relief for rapid response to battery abnormalities.





Back View



Perspective View



Front View



Side View



Perspective View



Top View



Front View



Back View

SYSTEM		RACK		MODULE	
Configuration	9P416S	Configuration	1P416S	Configuration	1P104S
Nominal Voltage (Vdc)	1,331.2	Nominal Voltage (Vdc)	1,331.2	Nominal Voltage (Vdc)	332.8
Capacity (Ah)	5,832	Capacity (Ah)	648	Capacity (Ah)	648
Energy (kWh)	7,763.6	Energy (kWh)	862.8	Energy (kWh)	215.7
W x D x H (mm)	2,438 × 6,058 × 2,896 (Excluding Parts 1 to 3)	W × D × H (mm)	5,600 × 2,250 × 355	W × D × H (mm)	1,350 × 2,190 × 263
IP Grade	IP66	Weight (ton)	5.5 (TBD)	IP Grade	IP65
Weight (ton)	55 (TBD)			Weight (kg)	1,300

X-Orion




611.3 kWh

Integrating everything from batteries to AC output in a single container.

All-in-One AC Power Block

Integrates battery, BPU, DC panel, PCS, and AC panel into a single container for a complete power system from DC to AC output.



Factory-Integrated Design

Major components are pre-assembled and factory-integrated, minimizing on-site installation work and reducing installation time and complexity.



Modular Container Expansion

Built on a standardized Power Block architecture, enabling parallel container expansion with flexible scalability across project sizes.





Back View



Perspective View



Front View



Side View

SYSTEM

Configuration	4P300S
Nominal Voltage (Vdc)	960
Capacity (Ah)	636.8
Energy (kWh)	611.33
W × D × H (mm)	1,800 × 2,700 × 2,300
IP Grade	IP55
AC Output	AC 3ø 480V 60Hz / 300kW (150kW x 2)
Chiller / HVAC	15kW / 2kW
Weight (ton)	8.2 (TBD)

MODULE

Configuration	4P30S
Nominal Voltage (Vdc)	96
Capacity (Ah)	61.13
Energy (kWh)	215.7
W × D × H (mm)	825 × 2125 × 145.3
IP Grade	-
Weight (kg)	400 ± 10

X-Polaris

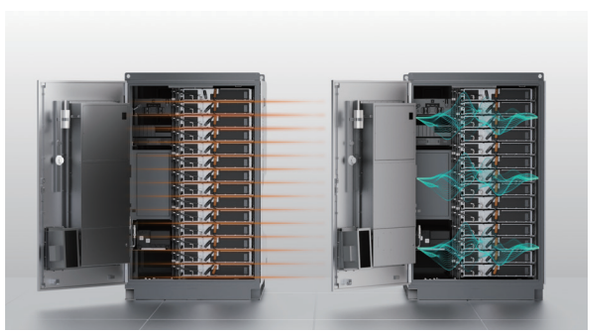



DELTAX
852 kWh
14-tier Module System

Flexible AC/DC Configuration with Integrated Thermal and Fire Safety

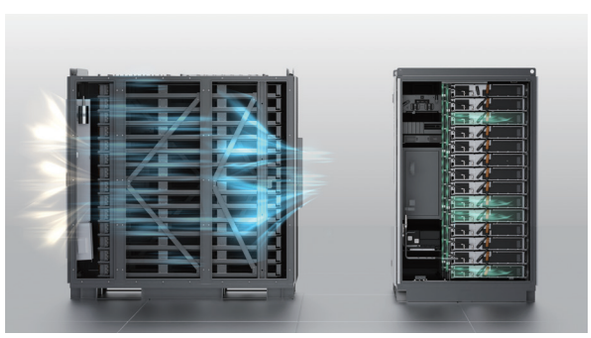
Flexible AC/DC System Configuration

Supports flexible AC- or DC-coupled configurations to meet diverse customer requirements with an optimized PCS and BPU architecture.



Independent Thermal Management System

A dedicated liquid cooling system and independent HVAC provide an optimized operating environment for batteries and key electrical components.



Multi-Layer Fire Safety System

A multi-layer fire safety system integrates early off-gas detection, automatic fire suppression, gas venting, and explosion pressure relief.





Back View



Perspective View



Front View



Side View

SYSTEM

Configuration	4P420S
Nominal Voltage (Vdc)	1,344
Capacity (Ah)	636.8
Energy (kWh)	852.04
W × D × H (mm)	1,586 × 2,747 × 2,567
IP Grade	IP55
AC Output	AC 3ø 480V 60Hz / 150kW
Chiller / HVAC	15kW / 2kW
Weight (ton)	9.5 (TBD)

MODULE

Configuration	4P30S
Nominal Voltage (Vdc)	96
Capacity (Ah)	61.13
Energy (kWh)	215.7
W × D × H (mm)	825 × 2125 × 145.3
IP Grade	-
Weight (kg)	400 ± 10

X-Vela

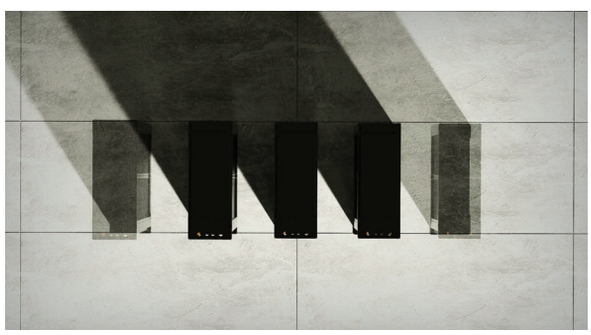



BAT(+)
PCS(+)
PCS(-)
BAT(-)

High-efficiency air-cooled ESS with modular stacking for optimized space and flexible capacity expansion.

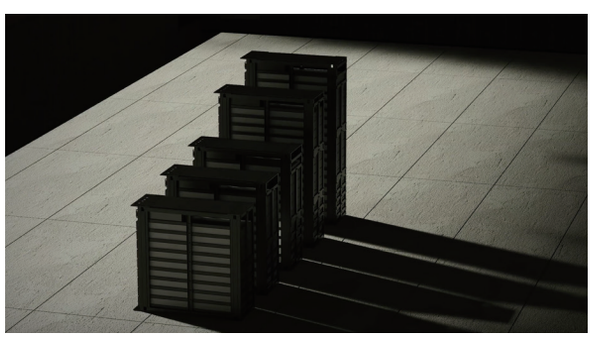
Easy Expansion Architecture

A standardized rack structure enables flexible capacity expansion through parallel connection for scalable system configuration.



Flexible Rack Configuration

Flexible rack configurations enable vertical or horizontal deployment for optimized space utilization.



Simple and Lightweight Air-Cooling Technology

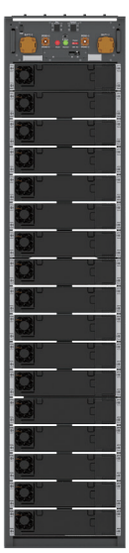
A simplified air-cooling system eliminates heavy cooling components and reduces rack weight for greater installation flexibility.



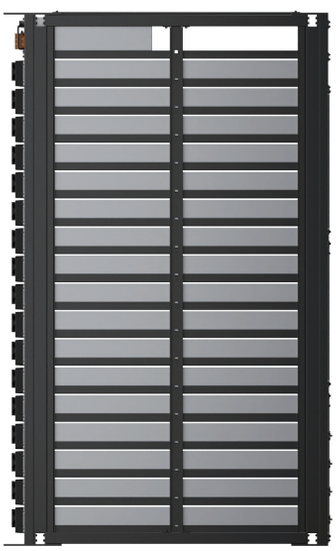
X-Vela 17F



Perspective View



Front View



Side View



Back View

SYSTEM	X-Vela 9F	X-Vela 10F	X-Vela 11F	X-Vela 15F	X-Vela 17F
Configuration	3P216S	3P240S	3P264S	3P360S	3P408S
Nominal Voltage (Vdc)	695.5	772.8	850.1	1,159.2	1,313.76
Capacity (Ah)	169.8	169.8	169.8	169.8	169.8
Energy (kWh)	118.1	131.2	144.3	196.8	223.1
W × D × H (mm)	517 × 1,391 × 1,343	517 × 1,391 × 1,508	517 × 1,391 × 1,644	517 × 1,391 × 2,089	517 × 1,391 × 2,325
Weight (ton)	1.0 (TBD)	1.1 (TBD)	1.2 (TBD)	1.67 (TBD)	2.0 (TBD)

Direct control ensures immediate feedback and system integrity even for **complex requirements.** Full in-house control enables **seamless integration and rapid response.**

Integrated In-House Capabilities

Battery Module, Pack & System

- Minimized System Downtime for Continuous Operation
- Firmware Design
- Functional Safety
- Sensor Technology Application
- EIS Technology Application
- Wireless Technology Application



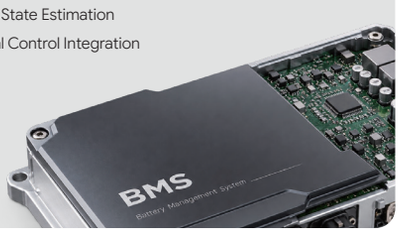
EMS

- Site Energy Optimization
- Real-Time Operation Control
- Grid Response Strategy
- Remote Monitoring Interface



BMS (HW/SW)

- Cell Monitoring and Balancing
- Fault Detection Logic
- Battery State Estimation
- Thermal Control Integration



Data Science

- Operational Data Pipeline
- Predictive Maintenance Model
- Battery Life Cycle Analysis
- Performance Anomaly Detection



Our **end-to-end process** delivers **intelligent solutions** powered by in-house AI. An extensive **ESS lineup** accelerates your vision.

End-to-End Manufacturing Strategy

ODM Leading the full process from concept to spec definition, design, certification, and mass production

OEM Performing precise contract manufacturing under your strict quality control standards

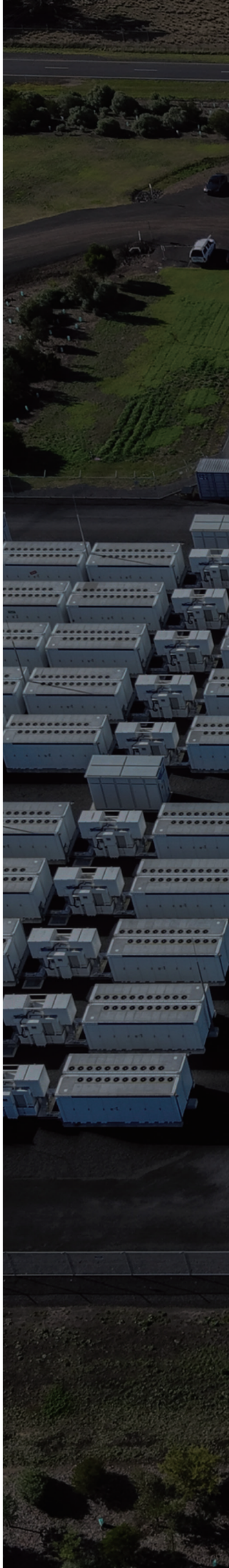
End-to-End Plant Strategy

FULL-CYCLE INTERNAL PROCESS

- Concept and Requirement Definition
- Mechanical and Electrical Design
- Certification and Validation
- Mass Production Transfer

QUALITY ASSURANCE

- Pack Architecture Design
- Module Assembly Process
- System Safety Verification
- Production Quality Feedback



5
Offices

Seoul Campus, South Korea
Headquarters Office

Goyang Campus, South Korea
Office / Showroom

Los Angeles Campus, U.S
Overseas Office

Shanghai Campus, China
Overseas Office

Hyderabad Campus, India
Overseas Office

5
Plants

Uiryeong-gun
South Korea

Walton County
U.S

Gujarat
India

Shanghai
China

Košice
Slovakia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and Ensures Safety