



BATTERY ENERGY STORAGE SYSTEM

BESS SOLUTIONS

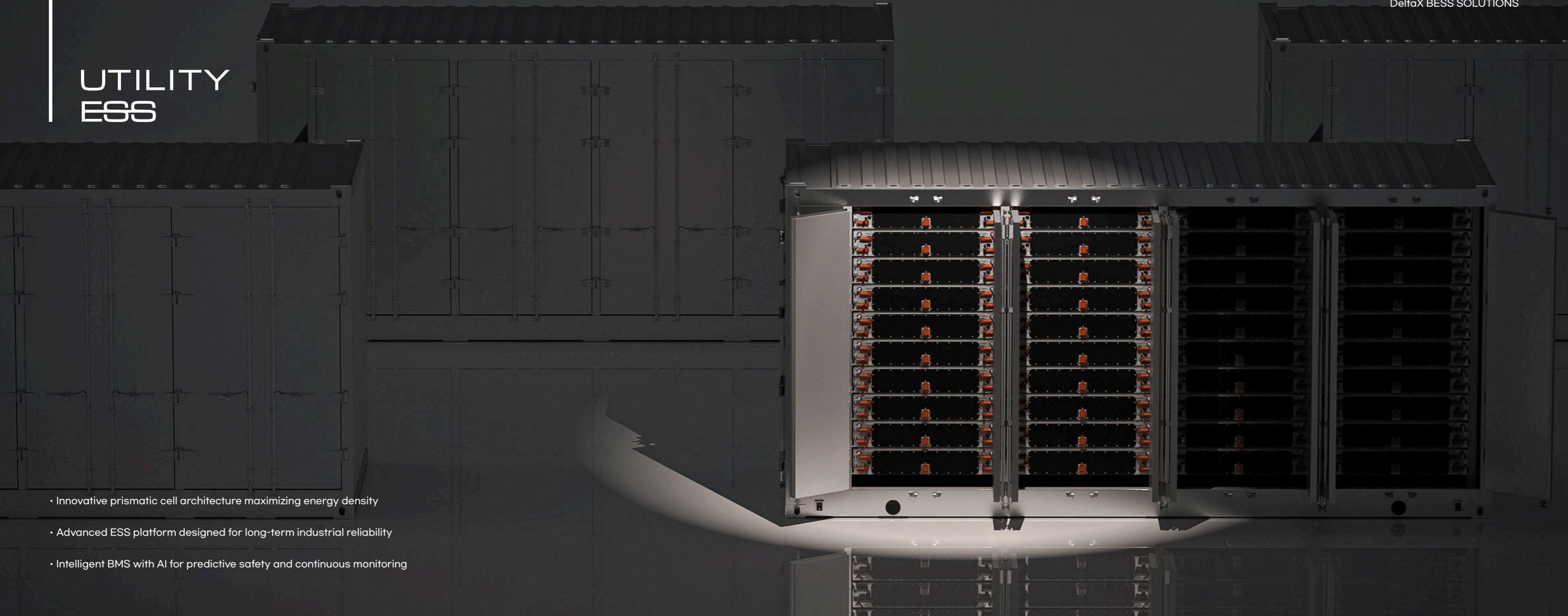
DELTAX

01

UTILITY ESS



UTILITY ESS



- Innovative prismatic cell architecture maximizing energy density
- Advanced ESS platform designed for long-term industrial reliability
- Intelligent BMS with AI for predictive safety and continuous monitoring



⚡ EIS (Electrochemical Impedance Spectroscopy)

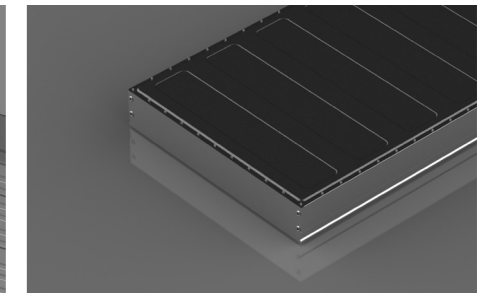
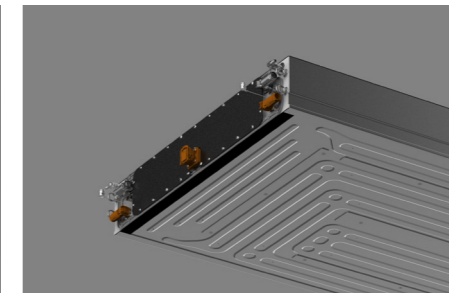
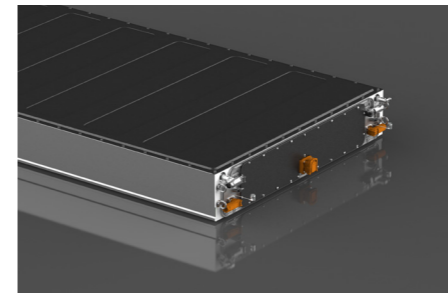
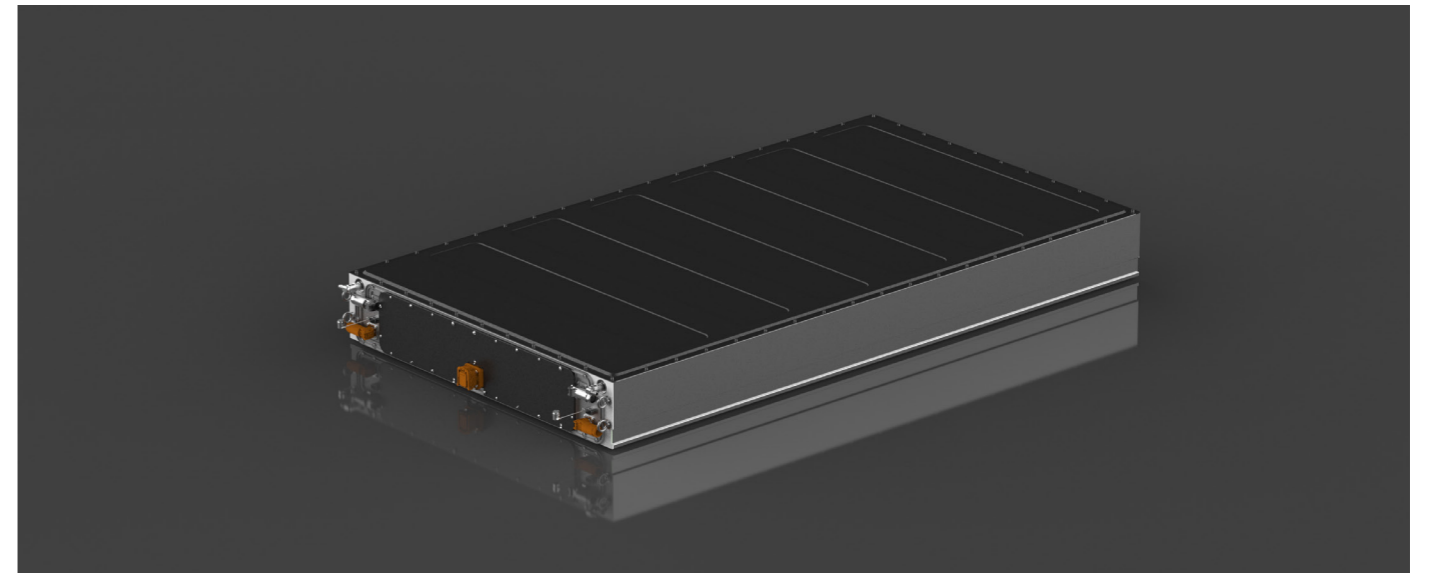
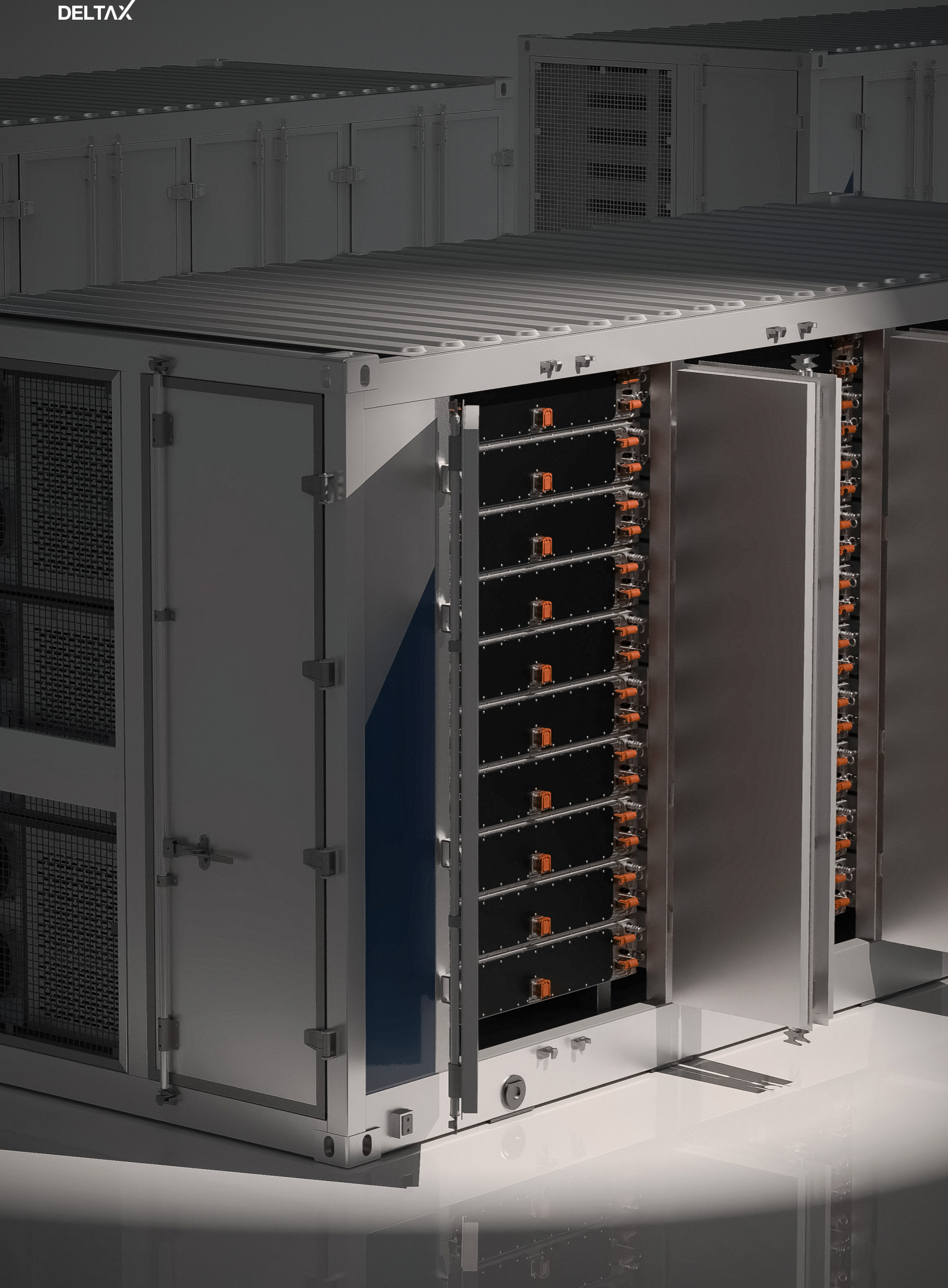
- Advanced EIS analysis enables precise tracking of electrochemical reactions inside battery cells
- Machine-learning-based interpretation of impedance data provides accurate SOH(State of Health) diagnostics and predictive maintenance scheduling

⚡ SELECTIVE IMMERSION TECHNOLOGY & LIQUID COOLING SYSTEM

- Off-gas detection triggers an automatic immersion-cooling safety mechanism to mitigate thermal runaway risk
- Unified structure integrating the cooling plate with the immersion valve for enhanced protection and compact system design

⚡ ENERGY OPTIMIZATION

- Engineered to fit a 20 ft high-cube standard container footprint
- Achieves 108%–125% higher energy density compared with conventional LFP storage systems



UTILITY
ESS

MAIN FEATURE

Item	Specification
Type	DC Block
Enclosure	20 ft Container
Cooling	Liquid Cooling
Battery Cell	LFP (Prismatic)
Power Rating	0.5CP
Chiller	60-80 kW

BATTERY MODULE

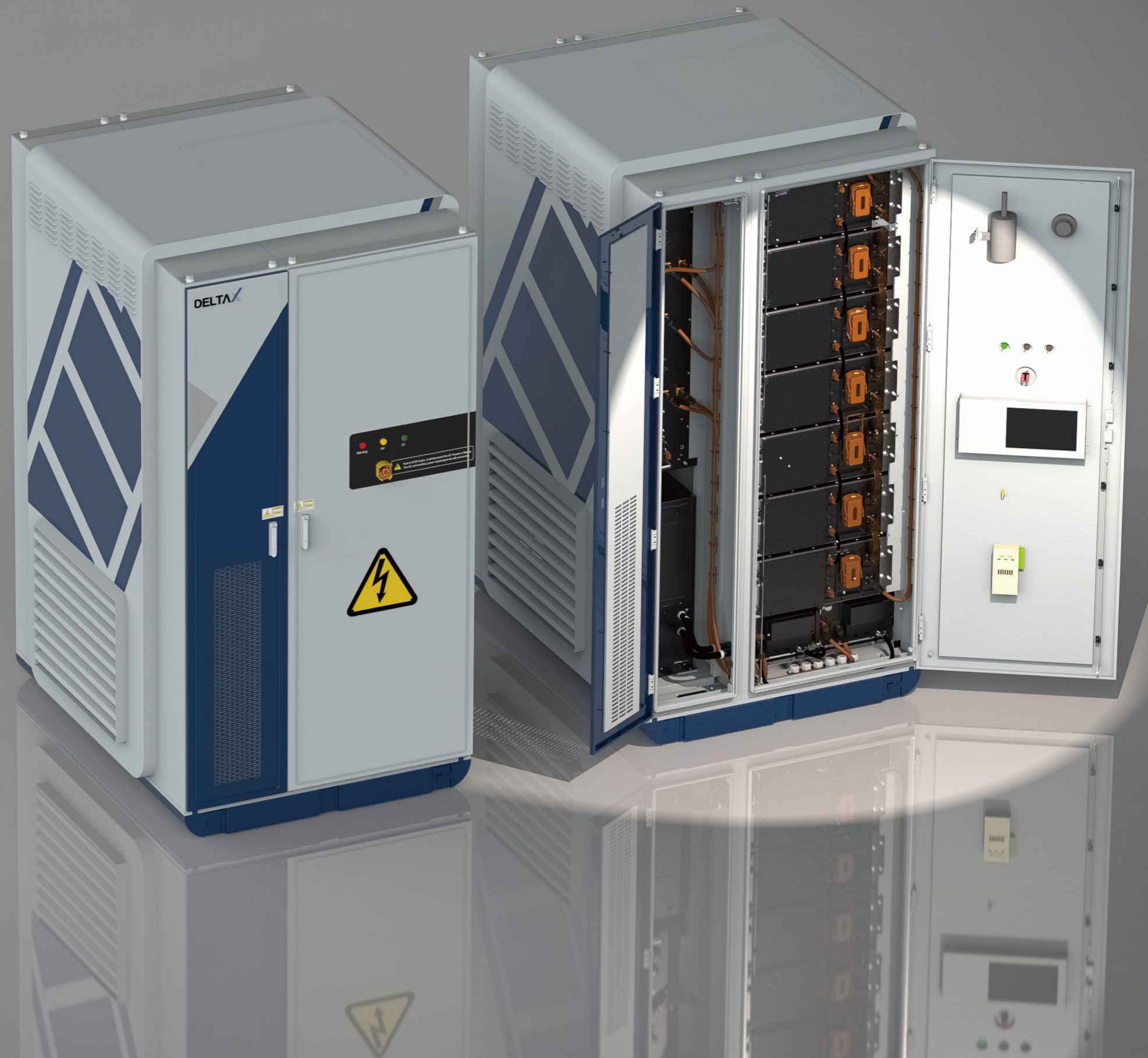
Item	Specification
Configuration	1P400S
Nominal Voltage	1,280 V
Capacity	105 Ah
Energy	134.4 kWh
Dimensions <small>(W × D × H)</small>	1,237.6 × 2,245.2 × 224.5mm
IP Grade	IP67

ESS SYSTEM

Item	Specification
Configuration	400S40P <small>(Confirm if needed)</small>
Nominal Voltage	1,280 V
Capacity	4,200 Ah
Energy	5.38 MWh
Weight	48 ton

02

C&I ESS



C&I ESS



- A versatile product lineup spanning 300-700 kWh to meet diverse energy storage needs
- AI-powered BMS and intelligent thermal management ensure superior safety and efficiency
- Fully integrated solution enabling fast, reliable deployment for various applications including peak shaving, backup power, and renewable integration



■ EIS (Electrochemical Impedance Spectroscopy)

- Advanced EIS analysis enables precise tracking of electrochemical reactions inside battery cell
- Machine-learning-based interpretation of impedance data delivers accurate SOH diagnostics and predictive maintenance scheduling

■ ENERGY OPTIMIZATION

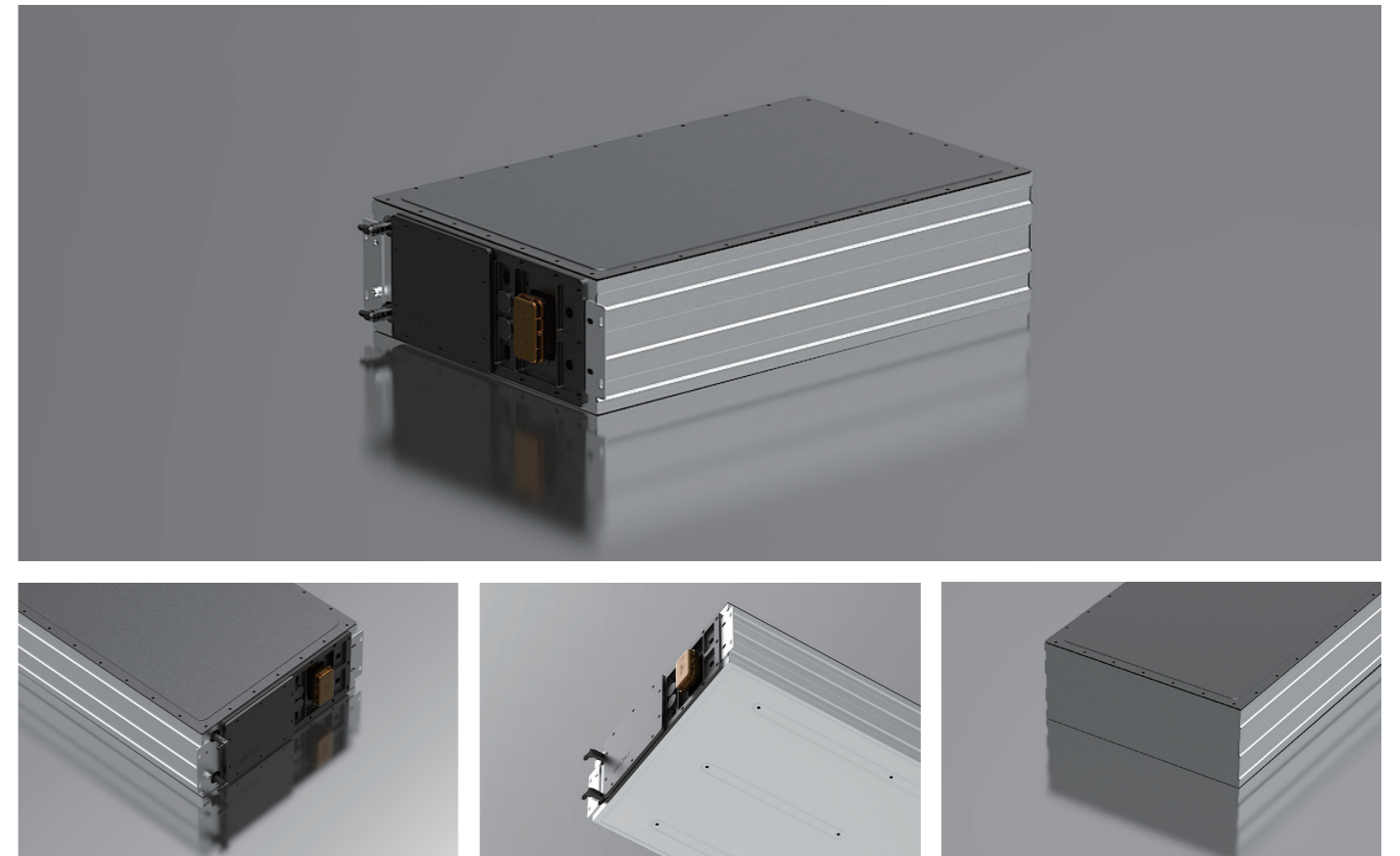
- Compact cabinet architecture designed for space-constrained indoor and outdoor deployments
- Achieves 108%–125% higher energy density compared to conventional LFP systems

■ SELECTIVE IMMERSION TECHNOLOGY & LIQUID COOLING SYSTEM

- Off-gas detection triggers an automatic immersion-cooling safety mechanism to mitigate thermal-runaway risk
- Unified structure integrating the cooling plate with the immersion valve for enhanced protection and compact system design

■ All-in-One System with Integrated PCS

- Built-in PCS enables direct AC grid connection, eliminating additional power conversion equipment
- Streamlined installation with reduced footprint and simplified commissioning
- Ensures flexible system operation and ease of expansion for both commercial and utility-scale deployments
- Engineered for superior reliability and lower total cost of ownership



MAIN FEATURE

Item	Specification
Type	All-in One (PCS)
Enclosure	Cabinet
Cooling	Liquid Cooling (Selective Immersion Technology)
Battery Cell	LFP (Pouch)
Power Rating	0.25CP/0.5CP
Chiller	8KW

Battery Module

Item	Specification			
Configuration	2P48S	3P48S	4P48S	4P30S
Nominal Voltage (V)	153.6	153.6	153.6	96
Capacity (AH)	318.4	477.6	636.8	636.8
Energy (KWh)	48.9	73.4	97.8	61.1
IP Grade (Cabinet / Module)	IP55/IP67			

ESS System

Item	Specification			
Configuration	2P336S	3P336S	4P336S	4P330S
Nominal Voltage (V)	1,075	1,075	1,075	1,056
Capacity (Ah)	318.4	477.6	636.8	636.8
Energy (KWh)	342.3	513.5	684.7	672.5
Dimensions (W × D × H)	1,525 × 1,900 × 2,720	1,525 × 1,900 × 2,720	1,525 × 2,470 × 2,720	1,525 × 2,300 × 2,720
Weight (Ton)	TBA			

03

ESS RACK SYSTEM



ESS RACK SYSTEM

- 118-223 kWh scalable rack-based ESS for flexible deployment
- Standard rack design suitable for indoor installation or outdoor enclosure integration
- One-stop solution with reliable installation, operation, and service support



■ HIGH SAFETY & RELIABILITY

- Proven LFP-based rack system engineered to ensure safe and stable energy storage
- Robust protection design minimizing risks across various operating environments

■ ONE-STOP SOLUTION

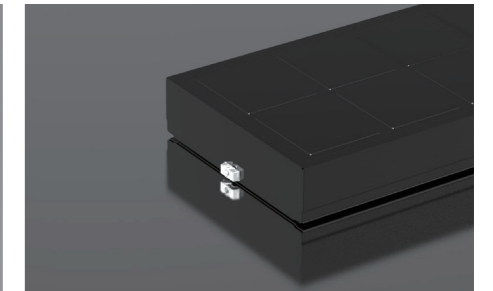
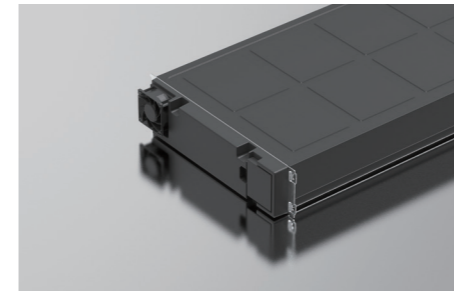
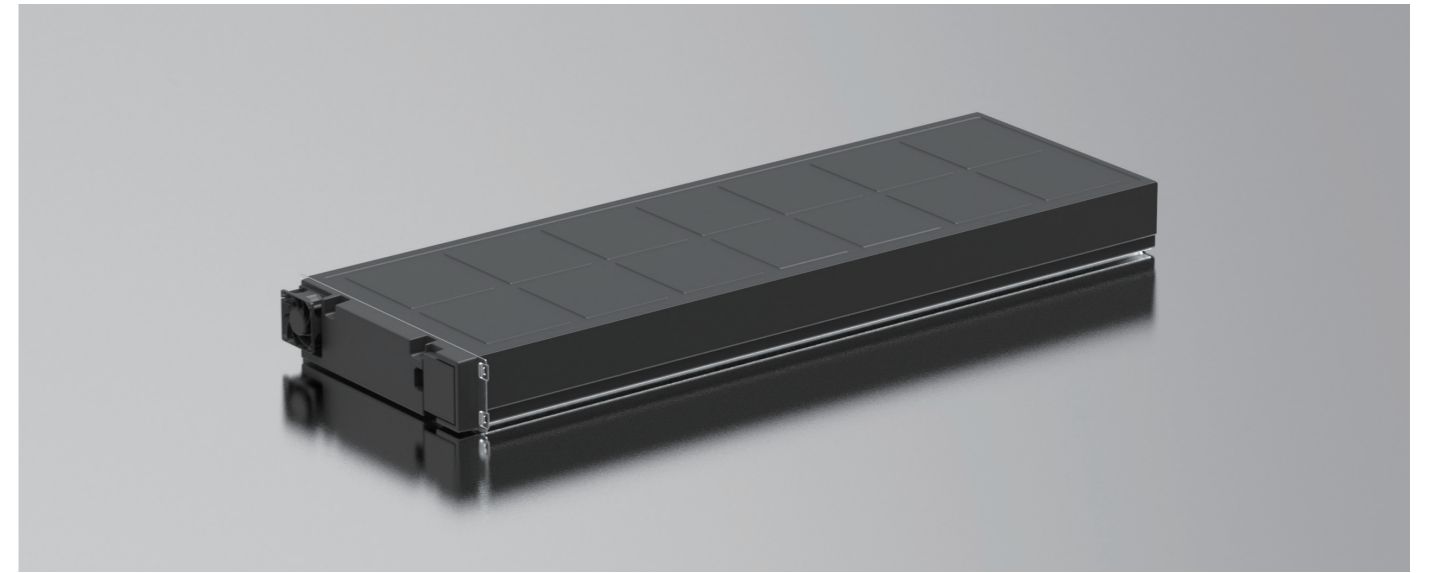
- Comprehensive service covering design, engineering, certification, and production
- Provided as a turnkey solution for fast and efficient ESS deployment

■ FLEXIBLE APPLICABILITY & SCALABILITY

- Standard rack architecture enabling seamless capacity expansion as needs grow
- Compatible with both indoor installations and outdoor enclosures for deployment flexibility

■ CUSTOMIZED INSTALLATION & PROMPT SERVICE

- Tailored installation and maintenance support for diverse commercial and industrial sites
- Reliable on-site and after-service response ensuring long-term system performance



ESS
RACK SYSTEM

ESS System

Capacity (Nominal)	169.8 Ah				
Item	DX17F	DX15F	DX11F	DX10F	DX9F
Voltage (Nominal)	1313.76 V _{DC}	1159.20 V _{DC}	850.08 V _{DC}	772.80 V _{DC}	695.52 V _{DC}
Energy (Nominal)	223.074 kWh	196.830 kWh	144.342 kWh	131.220 kWh	118.099 kWh
Operating Voltage Range	1101.6 - 1468.8 V _{DC}	972.0 - 1296.0 V _{DC}	712.8 - 950.4 V _{DC}	648.0 - 864.0 V _{DC}	583.2 - 777.6 V _{DC}
Max. Charge Power (UL1973)	111.537 kW	98.416 kW	72.171 kW	65.610 kW	59.049 kW
Max. Discharge Power (UL1973)	111.537 kW	98.416 kW	72.171 kW	65.610 kW	59.049 kW
Max. Charge / Discharge Current (IEC62619)	109.35 A	109.35 A	109.35 A	109.35 A	109.35 A
Communication	Modbus TCP (RBMS-BSC)				