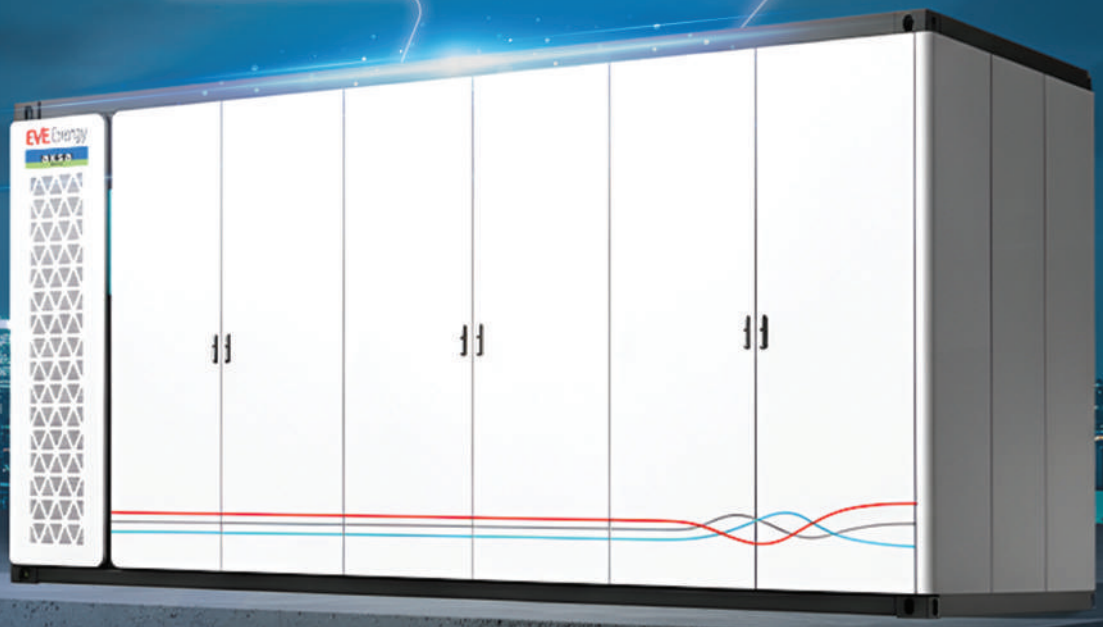
UTILITY ESS

Products and Solutions



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3.44MWh Energy Storage System

3.44MWh–280–1P

Thermal Management | Active Balancing | Electrical Protection | Easy to Install and Maintain



Active Balancing

- Full-time balancing enhances system stability and cell consistency.
- Balancing current improves energy utilization efficiently.

Electrical Protection

- 1500V DC full-voltage protection across 5 levels.
- PACK-level full-voltage fuse protection, without voltage division risks.
- System-wide fault current protection.

Easy to Install and Maintain

- Standard 20HC container ≤36t, flexible to sea freight.
- Assembly and commission in factory, ready for grid-connection commissioning upon delivery.

Product Parameter

Cell

Item	Specification
Cell Model	MB28-1P
Nominal Capacity	280Ah
Dimension (D*W*H)	71.7*173.7*207.2mm
Weight	5490g ± 300g
Energy Density	163.2Wh/kg
Rated Voltage	3.2V
Voltage Range	2.5V–3.65V
Operating Temperature	Charge: 0~60°C Discharge: -30~60°C

Module

Item	Specification
Pack Model	P428H103
Dimension (D*W*H)	1076*804*244mm
Weight	330 ± 3kg
Configuration	1P48S
Rated Energy	43kWh
Voltage Range	120V~175.2V
Rated Voltage	153.6V
Standard Charging and Discharging Rate	1P
Thermal Management	Liquid Cooling
Charging Operating Temperature	0°C~55°C
Discharging Operating Temperature	-20°C~55°C
Level of Protection	IP67

System

Item	Specification
System Model	S328H102
Dimension (D*W*H)	2438*6058*2896mm
Weight	~36t
Configuration	10*1P384S
Rated Energy	3440 kWh
Voltage Range	960~1401.6V
Anti-corrosion Grade	C3H
Standard Charging and Discharging Rate	1P/3440kW
Thermal Management	Liquid Cooling
Operating Temperature	-30~55°C
Relative Humidity	≤95%RH
Level of Protection	IP55

5MWh Energy Storage System

5MWh-628-0.5P

Efficient Temperature Control | Precise Firefighting | Convenient O&M



Efficient Temperature Control

- DCIR decreased by 28%, bringing less heat generation and higher energy efficiency.
- Temperature sensor ratio of more than 57%, ensuring more rapid and accurate temperature acquisition.
- Differentiated thicknesses of heat insulator, rendering more uniform and consistent expansion force of cells.

Precise Firefighting

- New self-developed separators improve thermal stability and puncture endurability, making the cells intrinsically safer.
- The module-level fire protection inside pack is paired with cabin-level gas firefighting, ensuring a hierarchical protection of the whole system.
- The fuse I^2T values of battery cluster switchgear unit and pack are well matched, providing a full-range fault current protection.

Convenient O&M

- Inside pack fire device but no firefighting pipelines for easy installation and maintenance.
- A design to be compatible with various tooling for flexible and easy assembly.
- Large pack maintenance window for easy BMS and fuse replacement without removing the upper cover.

Product Parameter

Cell

Item	Specification
Cell Model	MB56
Nominal Capacity	628Ah
Dimension (D*W*H)	71.7*352*205mm
Weight	11500g ± 300g
Rated Voltage	3.2V
Voltage Range	2.5V~3.65V
Operating Temperature	Charge: 0~60°C Discharge: -30~60°C

Module

Item	Specification
Pack Model	P156H201
Dimension (D*W*H)	2195*785*254mm
Weight	700 ± 10kg
Configuration	1P52S
Rated Energy	104.4kWh
Voltage Range	145.6V-187.2V
Rated Voltage	166.4V
Standard Charging and Discharging Rate	0.5P
Thermal Management	Liquid Cooling
Charging Operating Temperature	0°C~55°C
Discharging Operating Temperature	-20°C~55°C
Level of Protection	IP67
Certification	GB/T 36276, UN38.3, UL9540

System

Item	Specification
System Model	S556H201
Dimension (D*W*H)	2438*6058*2896mm
Weight	~45t
Configuration	1P416S*6
Rated Energy	5015kWh
Voltage Range	1164.8V~1497.6V
BMS Communication	RS485/Ethernet/CAN
Anti-corrosion Grade	C4H
Standard Charging and Discharging Rate	0.5P
Thermal Management	Liquid Cooling
Operating Temperature	-30°C~55°C
Relative Humidity	<95%RH (no condensation)
Level of Protection	IP55
Fire Suppression System	Aerosol

5MWh Energy Storage System

5MWh-315-1P

High-Rate Application | Thermal Management | Easy to Install and Maintain



High-Rate Application

- 1P rated operation, meeting all utility application scenarios' demands.
- The system has been upgraded to the 315Ah-1P, based on stacking technology.

Thermal Management

- Stacking cell technology ensures lower internal resistance and auxiliary power consumption.

Easy to Install and Maintain

- Standard 20-ft container design, flexible to sea freight.
- Assembly and commission in factory, ready for grid-connection commissioning upon delivery.

Product Parameter

Cell

Item	Specification
Cell Model	LF315H
Nominal Capacity	315Ah
Dimension (D*W*H)	71.7*173.7*207.2mm
Weight	5700g ± 300g
Energy Density	176.8Wh/kg
Rated Voltage	3.2V
Voltage Range	2.5V~3.65V
Operating Temperature	Charge: 0~60°C Discharge: -30~60°C

Module

Item	Specification
Pack Model	PI31H01
Dimension (D*W*H)	2210*780*250mm
Weight	700 ± 5kg
Configuration	1P104S
Rated Energy	104.8kWh
Voltage Range	260V~374.4V
Rated Voltage	332.8V
Standard Charging and Discharging Rate	1P
Thermal Management	Liquid Cooling
Charging Operating Temperature	0°C~55°C
Discharging Operating Temperature	-20°C~55°C
Level of Protection	IP67

System

Item	Specification
System Model	S531H101
Dimension (D*W*H)	2438*6058*2896mm
Weight	~43t
Configuration	1P416S*12
Rated Energy	5031 kWh
Voltage Range	1040V~1497.6V
Anti-corrosion Grade	C3H
Standard Charging and Discharging Rate	1P
Thermal Management	Liquid Cooling
Operating Temperature	-30°C~55°C
Relative Humidity	≤95%RH (Relative Humidity)
Level of Protection	IP55

6.9MWh Energy Storage System

6.9MWh-648Ah-0.5P

Precise Firefighting | Efficient Thermal Management | Easy to Install and Maintain



Stable Performance

- Low internal resistance supports high energy efficiency and stable charge and discharge performance.
- Automated production processes ensure consistent cell quality and reliable performance

Enhanced Safety

- Robust cell structure improves thermal stability and mechanical durability.
- Advanced safety design helps reduce the risks of leakage, overheating, and internal short circuits.

Long Service Life

- Optimized material and cell design provide excellent cycle performance and long-term reliability.
- High capacity retention supports continuous operation throughout the product life cycle.

Product Parameter

Cell

Item	Specification
Cell Model	LF648K
Nominal Capacity	648Ah
Dimension (D*W*H)	71.7* 352*206 mm
Weight	11500g±300g
Energy Density	180Wh/kg
Rated Energy	2073.6Wh
Rated Voltage	3.2V
Voltage Range	2.5V~3.65V
Operating Temperature	Charge 0~60°C Discharge -30~60°C

Module

Item	Specification
Pack Model	P264H202
Dimension (D*W*H)	2225.5*1535*258.7mm
Weight	1500±30kg
Configuration	1P104S
Rated Energy	215.6kWh
Voltage Range	291.2v~374.4v
Rated Voltage	332.8v
Standard Charging and Discharging Rate	0.5P
Thermal Management	Liquid Cooling
Charging Operating Temperature	0°C~55°C
Discharging Operating Temperature	-30°C~55°C
Level of Protection	IP67

System

Item	Specification
System Model	S6900
Dimension (D*W*H)	2438*6860*3420 mm
Weight	~60t
Configuration	8*1P416S
Rated Energy	6.9MWh
Voltage Range	1164.8v~1497.6v
Anti-corrosion Grade	C5M
Standard Charging and Discharging Rate	≤0.5P
Thermal Management	Liquid Cooling
Operating Temperature	-30°C~55°C
Relative Humidity	<95% (No Condensation)
Level of Protection	IP55

Aksa BESS, Aksa Generator's strategic investment in the energy storage sector, was established in partnership with EVE Energy, one of the world's leading battery manufacturers.
Operating in the production, supply, project design, and engineering services of energy storage systems, Aksa BESS aims to play a leading role in Turkey's energy transition.
Powered by EVE's globally proven battery technologies, Aksa BESS provides turnkey energy storage solutions that deliver high reliability and efficiency. Aksa BESS is determined to shape Turkey's sustainable energy future with technologies that support the integration of renewable energy sources, increase grid flexibility, and contribute to energy supply reliability.



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