

ES-M Series (M50 / M75 / M100 / M125)

HV Battery Storage Systems

Intelligent Battery Control

In-house developed Enektri BMC Gen.3 ensures precise cell management, performance optimization, and scalable system integration.



Cloud Monitoring & Service

Real-time system monitoring with cloud access, remote updates, and full lifecycle support for maximum uptime.



Advanced Safety Solutions

Equipped with advanced fire suppression and, based on customer needs, optional industrial cooling to ensure reliable operation from -30°C to +50°C.



Technical Parameters	ES-M50	ES-M75	ES-M100	ES-M125
Manufacturer	CATL			
Cell Material	Li-Ion NMC			
Battery Number	1x		2x	
Cell Type	126ah	189ah	126ah	189ah
Battery Module Capacity	2,77 kWh	2,77 kWh	2,77 kWh	2,77 kWh
Number of Modules	18	27	36	45
Total Battery Capacity	50 kWh	75 kWh	100 kWh	125 kWh
Nominal Voltage	~400V			
Operating Voltage Range	300 V ~ 450 V			
Charge / Discharge Rate	0.5C			
DoD	90%			
General Parameters				
Dimensions (W x H x D)	700 x 1800 x 600mm			
Weight	< 390 KG	< 540 KG	< 780 KG	< 930 KG
Installation Site	Outdoor			
IP Protection	IP55			
Anti Corrosion Level	C4			
Operation Humidity	5% ~ 95% (No Condensing)			
Operation Temperature	0°C ~ +45°C (-30°C ~ +50°C with conditioner control)			
Max. Operation Altitude	4000 m (> 3000 m Derating)			
Communication Port	Ethernet; CAN			
Communication Protocol	CAN / WIFI			
Cooling Method	Optional: Industrial Air Conditioner or Fan cooling			
Fire protection	Optional: Aerosol			
Battery modules sourced	Battery modules sourced from OEM-grade Stellantis EV packs, manufactured in 2022 to 2025 based on NMC chemistry.			
Cycle Life	≥ 4000 cycle (25°C, 0.5C, DoD 85%, EOL 70%)			
Waring	7 years			

ES-X Series (X300-10 / M450-10 / X600-20 / X750-20 / X900-20)

HV Container Storage Systems

- Scalable Energy Capacity**

Modular design enables configurations from 300 kW up to over 900 kWh, tailored to meet large-scale industrial and grid support applications.

- Optimized for Solar Farms & EV Infrastructure**

Engineered to support large-scale solar plants, EV charging hubs, and grid stabilization—delivering high power availability, smooth and renewable integration.

- Compact Containerized Design**

Available in 10- and 20-foot containers, the system offers high energy density in a small footprint—ideal for space-constrained sites, fast deployment, and scalable modular setups.



Technical Parameters	ES-X300-10	ES-X450-10	ES-X600-20	ES-X750-20	ES-X900-20
Manufacturer	CATL				
Cell Material	Li-Ion NMC				
Battery Number(Pack)	4s / 2s2p	6s / 2s3p	8s / 2s4p	10s / 2s5p	12s / 2s6p
Cell Type	187 / 375 Ah	187 / 562 Ah	187 / 750 Ah	187 / 937 Ah	187 / 1125 Ah
Battery Module Capacity	2,77 kWh	2,77 kWh	2,77 kWh	2,77 kWh	2,77 kWh
Number of Modules	108	162	216	270	324
Total Battery Capacity	300 kWh	450 kWh	600 kWh	750 kWh	900kWh
Nominal Voltage	~400V				
Operating Voltage Range	300 V ~ 450 V				
Charge / Discharge Rate	0.5C				
DoD	90%				
General Parameters					
Dimensions (W x H x D)	2990 x 2590 x 2430mm		4550 x 2590 x 2200mm		
Weight	< 3,4 T	< 4,5 T	< 5,5 T	< 6,6 T	< 7,7 T
Installation Site	Outdoor				
IP Protection	IP55				
Anti Corrosion Level	C4				
Operation Humidity	5% ~ 95% (No Condensing)				
Operation Temperature	0°C ~ +45°C (-30°C ~ +50°C with conditioner control)				
Max. Operation Altitude	4000 m (> 3000 m Derating)				
Communication Port	Ethernet; CAN				
Communication Protocol	CAN / WIFI				
Cooling Method	Optional: Industrial Air Conditioner or Fan cooling				
Fire protection	Optional: Aerosol				
Battery modules sourced	Battery modules sourced from OEM-grade Stellantis EV packs, manufactured in 2022 to 2025 based on NMC chemistry.				
Cycle Life	≥ 4000 cycle (25°C, 0.5C, DoD 85%, EOL 70%)				
Waring	7 years				