

EnerSalvis System

(Battery Container Energy Storage System)

ESS-20, ESS-40

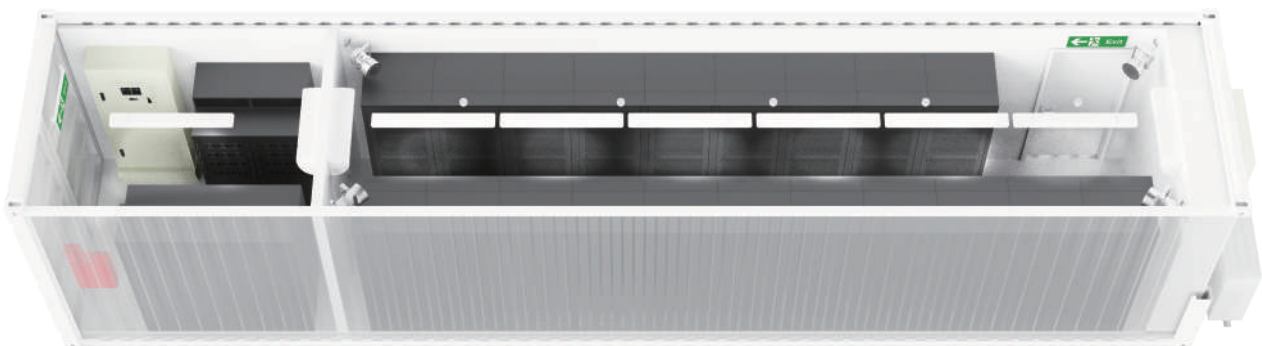


EnerSalvis System (Battery Container Energy Storage System)

Ablerex's battery container energy storage system, using battery module architecture, multi-level BMS management, can build system power capacity and battery capacity according to customer needs. Ablerex can provide customers with integrated planning and design of various modules such as battery modules, energy storage systems, battery containers, etc., and cooperate with many well-known enterprises such as photovoltaic systems, power sales companies, EPC, energy storage system integration companies.

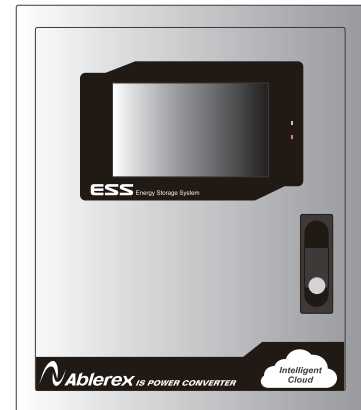
Features

- Smooth intermittent energy
- Voltage and frequency regulation
- Renewable energy output
- Ancillary services
- Peak clipping
- Suppress the load and suppress the demand
- Improve grid reliability and power quality
- Real virtual power regulation
- Harmonic suppression
- Time-of-use price
- Contract capacity compensation
- spare capacity
- Auto Frequency Control

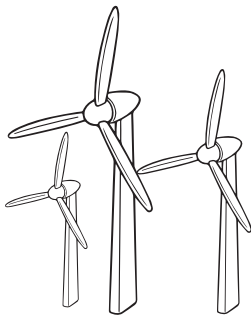


Core advantages

- Power system diagnostic capability
- Independent research and development production
- Pre-sales planning/after-sales service capability
- Experience in project implementation
(Nansha Taiping Island)
- High-pressure energy storage system leading edge
- There are different types of energy storage customers
- Rack-type, refrigerated container type, can be quickly applied to various occasions
- Built-in fire protection system and air conditioning system to ensure battery safety and longer cycle life



Application field



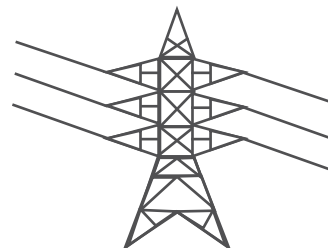
Renewable energy generation



Island and off-grid energy storage



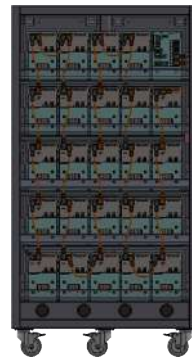
Industrial and domestic electricity



Transmission and distribution



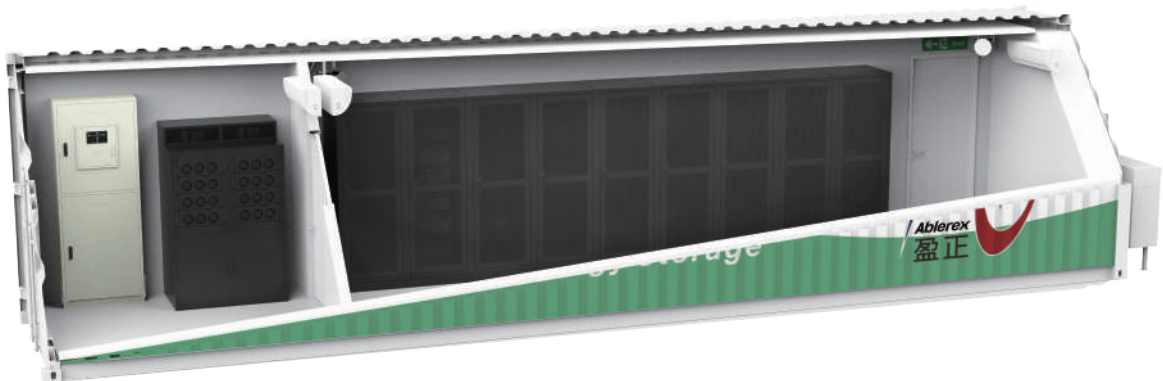
Battery module



Battery cabinet

The battery module has a built-in BMS. After several battery modules are connected in series, the BMU will collect the status of all battery systems and related systems, and communicate with PCS (Power Conversion System) and EMS (Energy Management System). Achieve better performance.

The battery energy storage cabinet system is composed of a battery frame composed of a plurality of battery modules, an PCS (Power Conversion System) and an EMS (Energy Management System), and the battery container energy storage system realizes the lithium battery at the MW/MWh level. system.



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MODEL		ESS-20	ESS-40
*Energy (kW/kWh)		603/756	1206/1512
Utility	Voltage	480V 3P/ PE	
	Power factor	+0.8~-0.8	
	Frequency	50/60 Hz	
	Harmonic	<3%	
Mechanical	Size (L*W*H) m	6.058 x 2.438 x 2.591	12.192 x 2.438 x 2.896
	Container type	Frozen container	
	Communicate interface	RS485	
Battery module	Rate capacity (Ah)	105	
	Rate voltage (V)	38.4	
	Work voltage (V)	36~41.4	
	Size (D*W*H,mm)	521*149*236	
	Weight(kg)	≤30.5	
	Operating temperature (°C)	Charge: 0°C ~ 55°C Discharge: -20°C ~ 55°C	
	Storage temperature (°C)	0°C ~ 35°C, Less than 12 months -20°C ~ 45°C, Less than 1 month	

Battery cabinet	Rated capacity (Ah)	105 * 1 String
	Rated voltage (V)	806
	Maximum operating voltage (V)	869
	Minimum working voltage (V)	756
	Rated charging current	105A *1 String
	Size (D*W*H) mm	750*900*2077
	Weight (kg)	<800kg
	Number of cycles (times)	>75% of initial capacity with 3000 cycles at 25°C ambient. Charge: 1C, 869V, 0.05C cut-off @25°C Discharge: 1C, 756V cut-off @25°C
	Operating temperature (°C)	Charge: 0°C ~ 55°C Discharge: -20°C ~ 55°C
	Storage temperature (°C)	0°C ~ 35°C, Less than 12 months -20°C ~ 45°C, Less than 1 month
	Number of battery modules	21 PCS*1 String

* The system can be customized according to customer needs

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