

Outdoor Cabinet Energy Storage System

100kWh /215kWh

power module, battery, refrigeration, fire protection, dynamic environment monitoring and energy management all in one. It is suitable for microgrid scenarios such as small-scale commercial and industrial energy storage, photovoltaic diesel storage, and photovoltaic storage and charging. The local control screen can perform a variety of functions, such as monitoring system operation, formulating energy management strategies, and upgrading remote equipment.

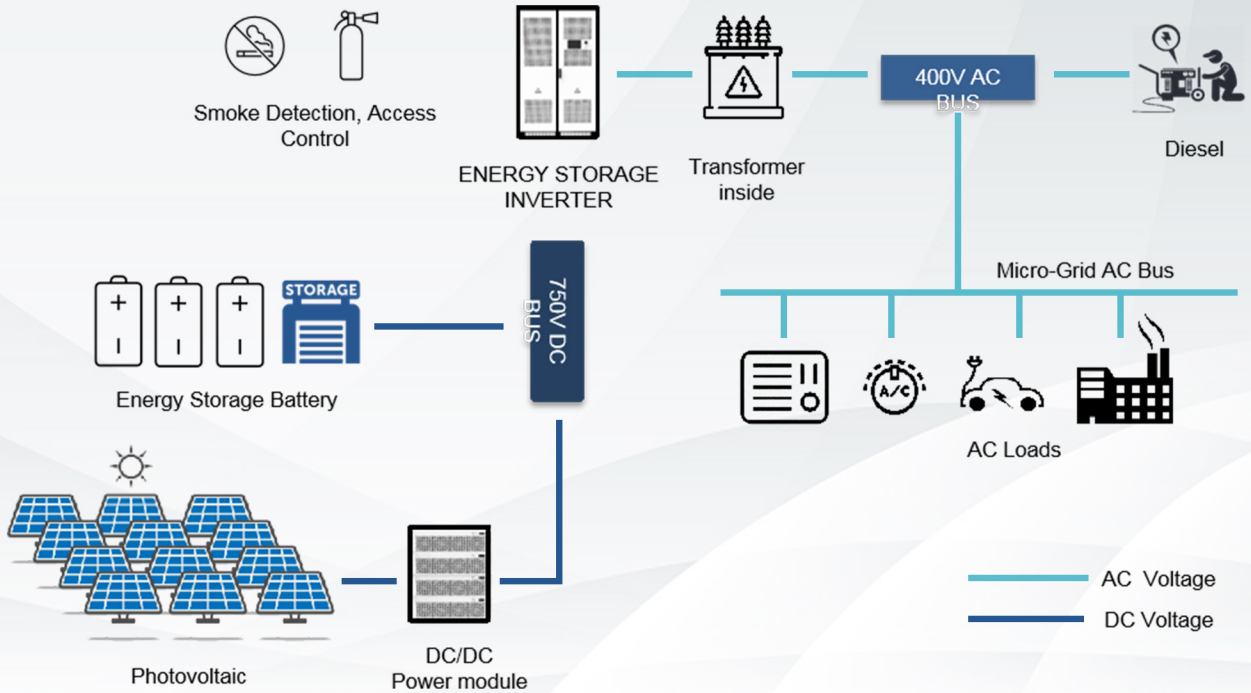


Product Features:

- ❖ Standardized structure design, menu type function configuration, photovoltaic charging module, on/off-grid switching module, power frequency transformer and other components can be selected for microgrid and other scenarios, and integrated photovoltaic storage integration system cabinet;
- ❖ Patented outdoor cabinet protection design, optimized heat dissipation air duct, protection against sand, dust and rain; The front and rear sides are open for maintenance, which is convenient for the layout of multiple systems side by side on site and reduces the space;
- ❖ With the patented technology of virtual synchronous machine features, it can realize the free on/off grid switching function without communication cable;
- ❖ Space-saving: using door-mounted embedded integrated air conditioners can save space in the cabinet by not occupying any space, improving the available space, enhancing the top structural integrity, and achieving good waterproof effect.

Product Features:

Multi-energy solution for Microgrids



Microgrid Solutions

Our energy storage system provides power balance and control for microgrids in various energy systems, including photovoltaic, wind, diesel engines, and public power grids. It's ideal for remote areas, islands, mountainous regions, and solar storage and energy charging optimization in technology parks;

Recommended Products

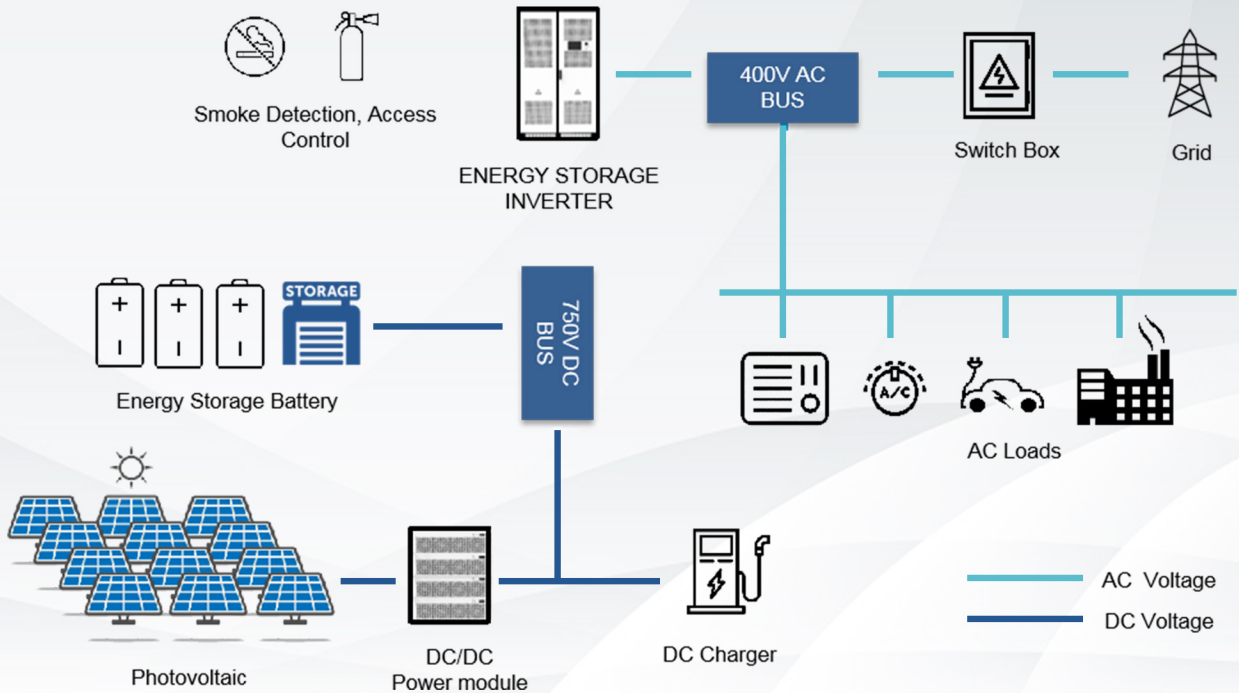
- ❖ DC/AC Energy storage inverter
- ❖ DC/DC converters for PV
- ❖ STS Static Transfer Switch

Highlights

- ❖ Built-in power isolation transformer, strong impact resistance and strong stability.
- ❖ On-grid, off-grid, VSG multiple operation modes to meet the diversified needs of microgrids.
- ❖ Support photovoltaic modules and various types of energy storage battery access, one machine multi-purpose.
- ❖ With RS485/CAN 2.0/ Ethernet communication and dry contact control port, remote control can be realized.

Scenario:

Peak shaving solution for C&I



C&I Solutions

Industrial and commercial energy storage helps lower electricity costs, enhance power supply reliability, and improve power quality. It efficiently reduces the cost of electricity for high-load users with fluctuations, while ensuring normal operation during power outages.

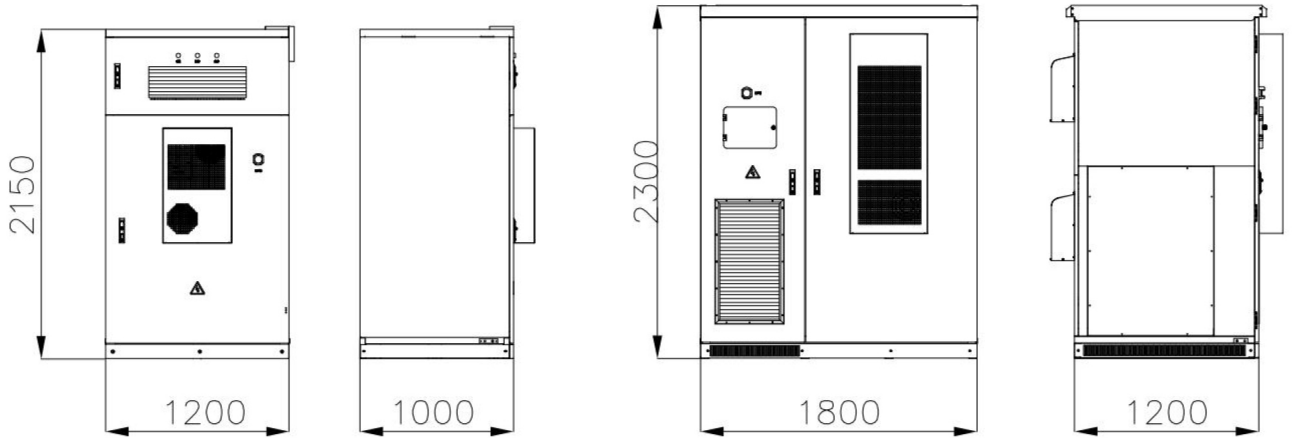
Achieve peak shaving

Cars can be charged using battery storage during peak hours, while the battery is recharged during off-peak hours, reducing costs for the station. Static Transfer Switch ensures reliable power supply for critical loads with seamless grid switching

Recommended Products

- ❖ DC/AC Energy storage inverter
- ❖ DC/DC converters for PV
- ❖ STS Static Transfer Switch

Outdoor Cabinet ESS:



Outdoor Cabinet ESS:

	50KW/100KWH	100KW/215KWH
Model	50(100kwh)	100TS(DC100)(215kwh)
Max. PV input power	50kw	100kw
Max. PV input voltage	620V	680V
STS	✓	✓
Transformer	Transformer inside	Transformer inside
Battery (DC)		
Rated battery capacity	100kwh	215kwh
Rated system voltage	844.8V	768V
Battery type	Lithium iron phosphate battery(LFP)	
Battery Cell capacity	120Ah	280Ah
Series of battery	1P*24S*11S	1P*20S*12S
AC		
Rated AC power	50kW	100kW
Rated AC current	72A	144A
Rated AC voltage	400V,3P+N+PE,50/60Hz	
THDi	<3%(rated power)	
PF	-1 leading to+1 lagging	
General Parameters		
Protection level	IP55	
Isolation mode	Non-Isolation(Adding isolation transformer is optional)	
Operating temperature	-25~60°C(Derating above 45°C)	
Altitude	3000m(>3000m derating)	
Communication interface	RS485/CAN 2.0/ Ethernet/dry contact	
Dimension(W*D*H)	1200*1000*2150mm	1800*1200*2300mm
Weight (with battery)	1200kg	3000kg

Note: Above models are typical configurations. PV charging (DC/DC) module, On/of-grid switching module, industrial isolation transformer and other components can also be selected for micro-grid scenarios, to form Solar ESS integrated system cabinet.