

GSL ENERGY

Much More Than Grade A

high-voltage battery system

Air-Cooled Commercial ESS

14.34kWh Module

BESS-125K215



**Built-in Air Conditioning Module,
Intelligent Constant,**



**6,500 Times of
Long cycle Life**



**Easily Installation
and Flexible
Deployment**



**IP65 Ingress
Rating**



**Comprehensive
Safety Protection**

- ★ Supports PV input up to 200% of the inverter's rated DC power, maximising solar utilisation
- ★ Supports up to 21A PV input current, compatible with the latest high-power PV modules
- ★ 160% overload for 200ms in off-grid mode, ensuring stable startup of motors and water pumps
- ★ Two independent battery connections, allowing more flexible system configuration
- ★ Smart port enables multiple energy source inputs, including grid-tied inverters, diesel generators, and wind turbines
- ★ Seamless on/off-grid switching in under 10ms, guaranteeing uninterrupted power supply
- ★ Supports up to 10 units in parallel. For systems with more than 6 units, use of power distribution cabinet is recommended



Farms



Hotels

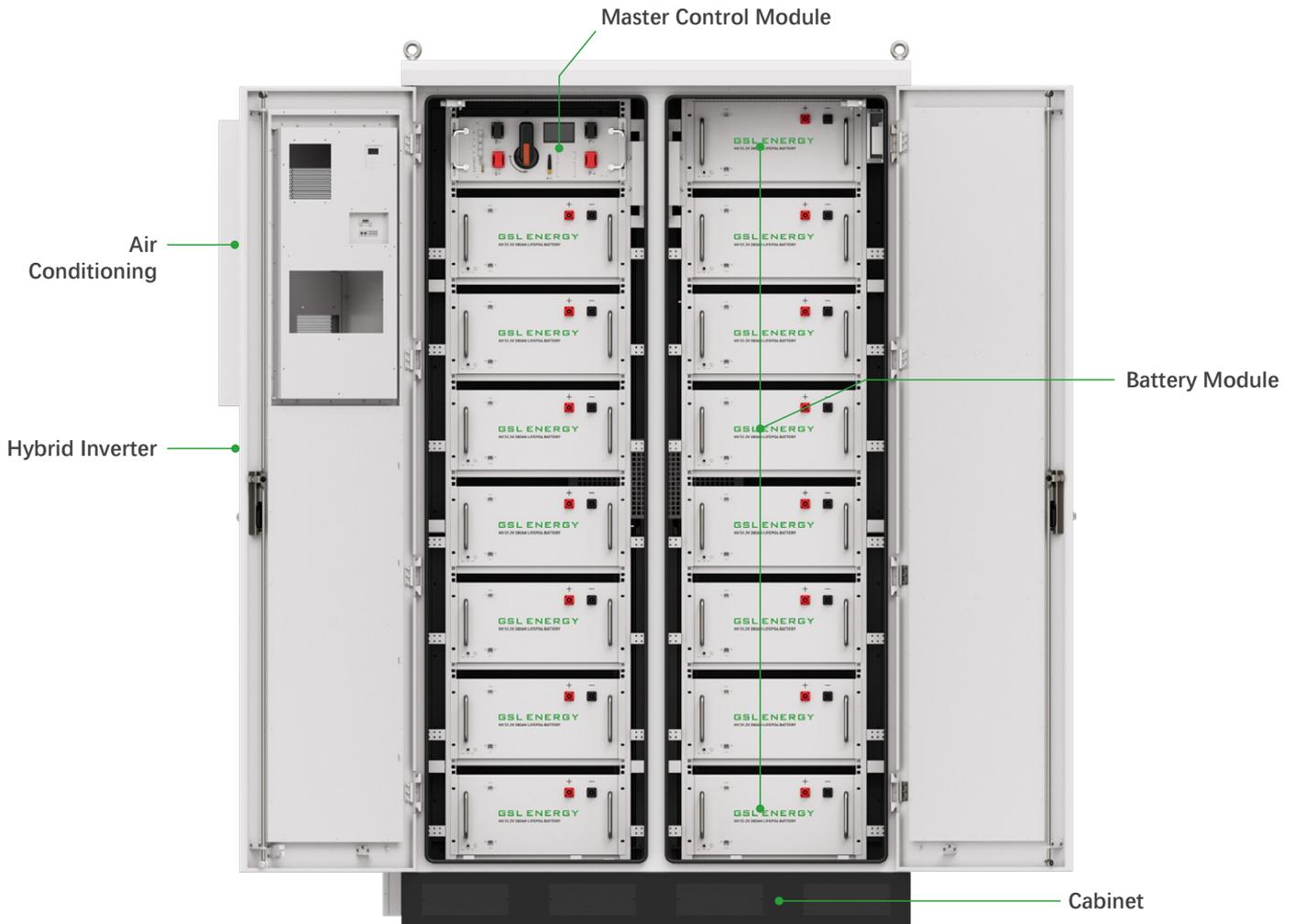


Convenience Stores
at Gas Stations



Small Factories

System Structure



Technical Specifications

Model	BESS-125K215
System Technical Specifications	
Nominal Energy	215.04 kWh
Nominal DC Voltage	768 V
Number of Battery Pack	15
Dimensions (W x D x H) (no contain inverter)	1300*1320*2380mm
Weight (no contain inverter)	~2043kgs
Enclosure Rating	IP65
Cooling Method	Intelligent Air-cooled Air conditioner
Communication Port	Wi-Fi & LAN Hardware Included
Warranty	10 Years
Certification (Battery)	UN38.3, IEC62619, CE, CEI 0-21, VDE-AR-N 4105, IEC 62109
Certification (Inverter)	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011

Battery Model	GSL-51-280
Battery Chemistry	LiFePO4
Battery Energy	14.34 kWh
Battery Nominal Voltage	51.2 V
Battery Capacity	280 Ah
Max. Battery Charge / Discharge Current	100 A
Operating Temperature Range	Charge: 0 ~ 55°C / Discharge: -20°C ~ 55°C
Cycle Life	≥ 6500 (@25°C±2°C, 0.5C/0.5C, 70%EOL)



Inverter Model	S6-EH3P(125)K10-NV-YD-H
Battery	
Battery Chemistry	Li-ion
Battery Voltage Range	300 ~ 950 V
Max. Charge/Discharge Current	200 A / 100 A + 100 A
Number of Battery Ports	2
Max. Charge/Discharge Current of Each Port	100 A
Communication	CAN / RS485
Input DC (PV side)	
Recommended Max. PV Array Size	250 kW
Max. Usable PV Input Power	250 kW
Max. Input Voltage	1000 V
Rated Voltage	600 V
Start-up Voltage	180 V
MPPT Voltage Range	150 - 950 V
Max. Input Current	10 × 42 A
Max. Short Circuit Current	10 × 60 A
MPPT Number / Max. Input Strings Number	10 / 20
Output/Input AC (Grid side)	
Rated Output Power	125 kW
Max. Apparent Output Power	125 kVA
Rated Grid Voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V
Rated Grid Frequency	50 Hz / 60 Hz
Rated Grid Output Current	189.9 A / 180.4 A
Power Factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Max. Input Current	250 A

Output AC (Back-up)

Rated Output Power	125 kW
Max. Apparent Output Power	1.2 times of rated power, 100 s; 1.4 times of rated power, 10 s; 1.6 times of rated power, 200 ms
Back-up Switch Time	<10 ms
Rated Output Voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V
Rated Frequency	50 Hz / 60 Hz
THDv (@linear load)	< 2%

Input AC (Generator)

Max. Input Power	125 kW
Rated Input Current	189.9 A / 180.4 A
Rated Input Voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V
Rated Input Frequency	50 Hz / 60 Hz

General Data

Max. Allowable Phase Imbalance (Grid & Back-up)	100%
Max. Power Per Phase (Grid & Back-up)	41.66 kW
Max Parallel Connection Sets	Supports up to 10 units in parallel. For systems with more than 6 units, use of a Solis power distribution cabinet is recommended
Topology	Transformerless
Cooling Concept	Intelligent fan-cooling
Ingress Protection	IP65

If the size and parameters of the product are changed, the latest information will prevail without further notice.

