

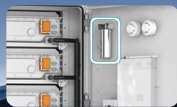
GOODWE

ESA Series **125kW/261 kWh**

Scalable and flexible C&I all-in-one energy storage solution



6-layer Safety Protection From Cell to System



2.5MW/5.22MWh Max



...up to 20 units

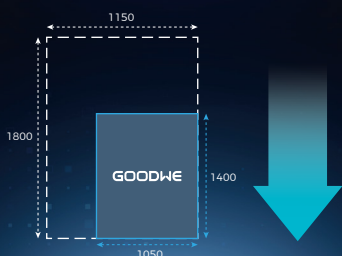
Microgrid Ready



VSG Support



28.9% Space Saving



177.6 kWh/m² High Energy Density



Face-to-face

Back-to-back

Dual Cooling for Lower LCOE

Liquid Cooling



Air Cooling



Technical Data	GW125/261-ESA-LCN-G10	GW125/261-ESA-LCN-G11
Battery Data		
Cell Type	LFP (LiFePO ₄)	
Cell Capacity (Ah)	314	
Module Nominal Energy (kWh)	52.25	
Number of Packs	5	
Rack Nominal Energy (kWh)	261.25	
Rack Usable Energy (kWh)	261.25	
Nominal Voltage (V)	832	
Operating Voltage Range (V)	676 ~ 936	
Max. Continuous Charge / Discharge Current (A)	188	
Max. Charge / Discharge Current (A)	198.5	
Max. Charge / Discharge Rate	0.5P	
Depth of Discharge	90% ~ 100% (90% Recommended)	
AC Output Data (On-grid)		
Nominal Output Power (kW)	125	
Max. Output Power (kW)	137.5@400V AC; 130.6@380V AC	
Nominal Apparent Power (kVA)	125	
Nominal Apparent Power Output to Utility Grid (kVA)	125	
Nominal Apparent Power from Utility Grid (kVA)	125	
Max. Apparent Power (kVA)	137.5@400V AC; 130.6@380V AC	
Max. Apparent Power Output to Utility Grid (kVA)	137.5@400V AC; 130.6@380V AC	
Max. Apparent Power from Utility Grid (kVA)	137.5@400V AC; 130.6@380V AC	
Nominal Output Voltage (V)	400 / 380, 3L / N / PE	
Output Voltage Range (V)	340 ~ 440 / 323 ~ 418	
Nominal AC Grid Frequency (Hz)	50 / 60	
AC Grid Frequency Range (Hz)	47.5 ~ 52.5 / 57.5 ~ 62.5	
Max. AC Output Current (A)	198.5	
Max. AC Current Output to Utility Grid (A)	198.5	
Max. AC Current from Utility Grid (A)	198.5	
Nominal Output Current (A)	180.4@400V AC; 189.9@380V AC	
Power Factor	~1 (0.8 lag to 0.8 lead)	
Max. Total Harmonic Distortion	<3%	
AC Output Data (Off-grid)		
Nominal Output Power (kW)	125	
Max. Output Power (kW)	137.5@400V AC; 130.6@380V AC	
Nominal Apparent Power (kVA)	125	
Nominal Output Apparent Power to Grid (kVA)	125	
Nominal Input Apparent Power from Grid (kVA)	125	
Max. Apparent Power (kVA)	137.5@400V AC; 130.6@380V AC	
Max. Output Apparent Power to Grid (kVA)	137.5@400V AC; 130.6@380V AC	
Max. Input Apparent Power from Grid (kVA)	137.5@400V AC; 130.6@380V AC	
Nominal Output Voltage (V)	400 / 380, 3L / N / PE	
Output Voltage Range (V)	340 ~ 440 / 323 ~ 418	
Nominal Output Frequency (Hz)	50 / 60	
AC Grid Frequency Range (Hz)	47.5 ~ 52.5 / 57.5 ~ 62.5	
Max. AC Output Current (A)	198.5	
Max. AC Current Output to Grid (A)	198.5	
Max. AC Current from Grid (A)	198.5	
Nominal Output Current (A)	180.4@400V AC; 189.9@380V AC	
Power Factor	~1 (0.8 lag to 0.8 lead)	
Output THDi (@Linear Load)	<3%	
Efficiency		
Max. PCS Efficiency	98.6%	
Max. System Efficiency	92.0%	
Protection		
Battery Reverse Polarity Protection	Integrated	
Anti-islanding Protection	Integrated	
AC Overcurrent Protection	Integrated	
AC Short Circuit Protection	Integrated	
AC Surge Protection	Type II	
General Data		
Operation Temperature Range (°C)	-25 ~ +55	
Derating Temperature (°C)	45	
Storage Temperature (°C)	-20 ~ +45 (One Month); 0 ~ +35 (One Year)	
Relative Humidity	10% ~ 95%	
Max. Operating Altitude (m)	4000 (2000 derating)	
Cooling Method	Pack: Liquid Cooling; PCS: Smart Fan Cooling	
User Interface	LED, WLAN + APP	
Communication Protocol	Modbus TCP, Modbus RTU	
Weight (kg)	2580	
Dimension (W x H x D mm)	1050 x 2250 x 1400	
Noise Emission (dB)	≤70	
Topology	Non-isolated	
Ingress Protection Rating	IP54	
Anti-Corrosion	C4 (C5 optional)	
Configuration of Safety	Aerosol + water-based fire suppression, explosion-proof fan + explosion-proof plates (optional)	
Charge / Discharge Switching Time	<60ms	

*: Please visit GoodWe website for the latest certificates.