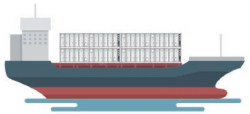
GSL-BESS-5MWh

GSL ENERGY
Much More Than Grade A

Battery System + BMS + Firefighting System + Temperature Control System + Power Distribution Control Cystem

01 20HQ transportation requirements



UN3536 CLASS9

ADR or JT/T 617 Transportation requirements

02 The container is mainly used for utility level energy storage. It can be used for new energy consumption:

Wind Farm

Photovoltaic

Peak shaving and valley filling

Frequency regulation on source side and grid side

03 INPUT & OUPUT

DC INPUT

DC OUTPUT

04 Characteristics

High energy density

High reliability

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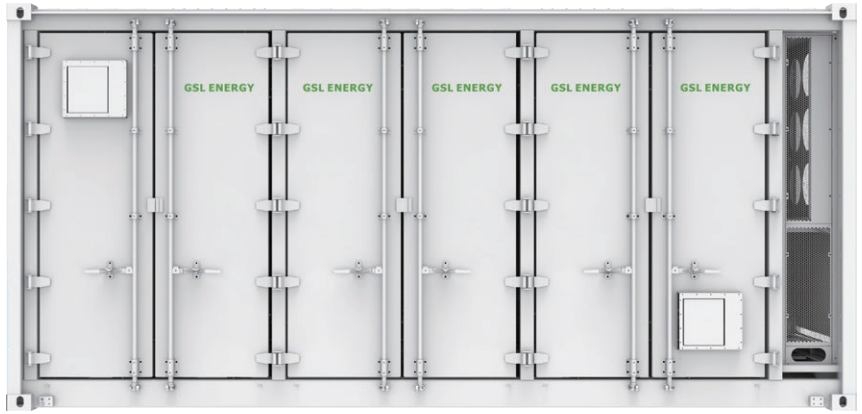

Weight: 43t
Dimension: 20HQ

	Parameters	*Specifications*	*Parameters*	*Specifications*
Module Parameter	Configuration From	1P104S	Module Capacity	314Ah
	Module Voltage	332.8V	Range of Voltage	260V~379.6V
	Energy	104.499kWh	Rated C-Rate	0.5CP
	Max. C-Rate	1CP	Cooling/Heating Type	Liquid cooling
	IP Level	IP67	Max. Continual Charge& Discharge Current	192A
	Max. Pulse Charge & Discharge Current	314A (for 60s)	Module Dimension (mm)	2150.5D *779W *259H
	Module Mass	≈690 kg		
	UL9540A, UN38.3, ROHS, GB/T36276-2018 etc.			
System Parameter	Module Combination	1P416S	Number of Battery Clusters	12
	Capacity	5015.9kWh	Nominal Voltage	1331.2V
	Voltage Range	1040V~1500V	Rated Charge/ Discharge Current	0.6C/0.6C (1C TBD)
	Discharge Depth	90% DoD	Service Life	>10000 cycles@80%DoD
	Thermal Management Mode	Liquid cooling technology	Thermal Runaway Management-1	Aerosol Extinguishing or PFH
	Thermal Runaway Management-2	Water Immersion	Operation Altitude	3000m (>3000m derating)
	Noise Level @1m	<75 dB(A)	IP Rating	IP55
	Operating Temperature	–20°C to 55°C	Operating Humidity (RH)	0 to 95%
	Communication Interface	CAN, RS485, Wi-Fi	Weight	≈43t / ≈123459 lbs
	Storage Conditions	–20°C to 30°C, Up to 95% RH, non-condensing State of Energy (SoE): 50% initial		
	Dimensions	20HQ / 6058L *2438W *2896H mm / 238.5*95.9*114.0 in		
	UN9540A, UL1973, NFP69, UN3536, IEC62619, IEC63056, GB/T36276-2018, GB/T 36276-2013 etc. certifications are still in progress			

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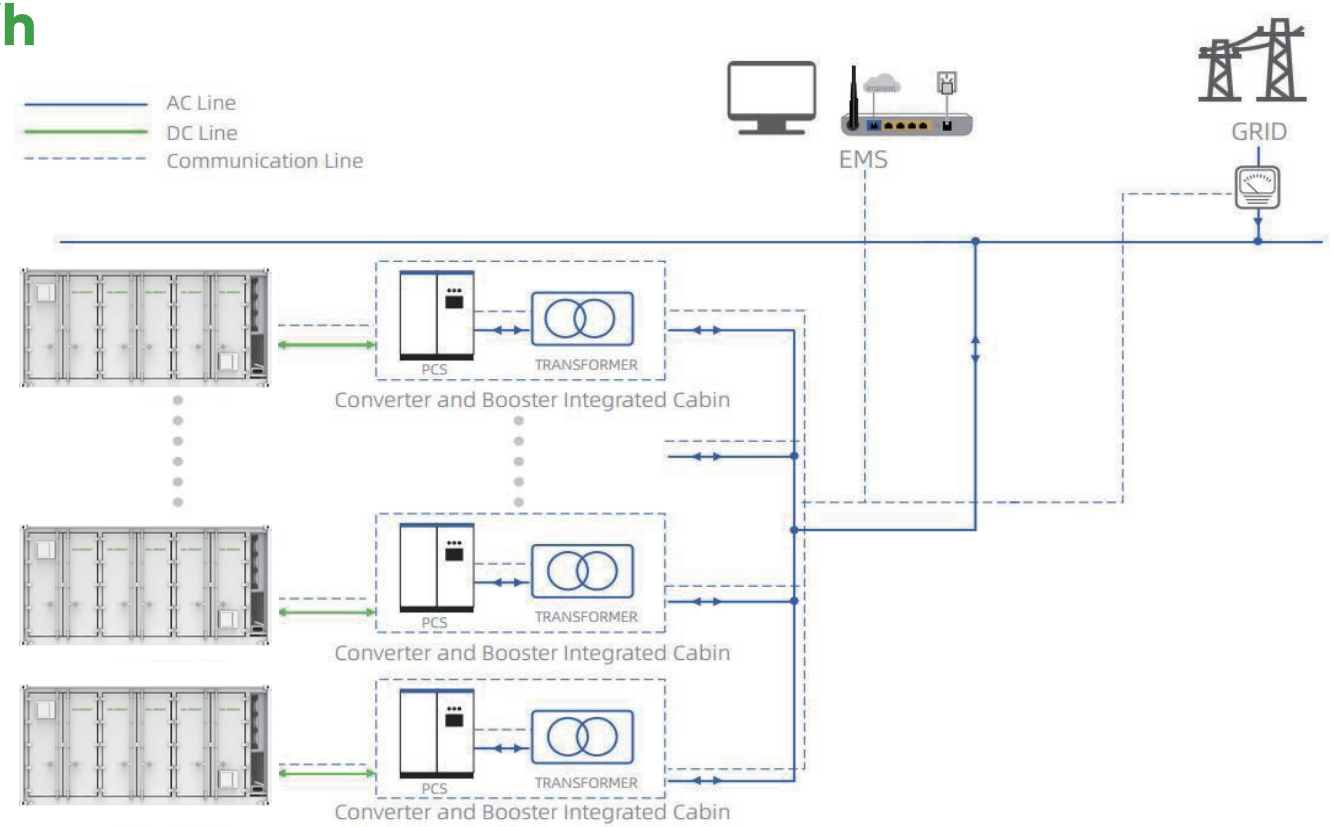


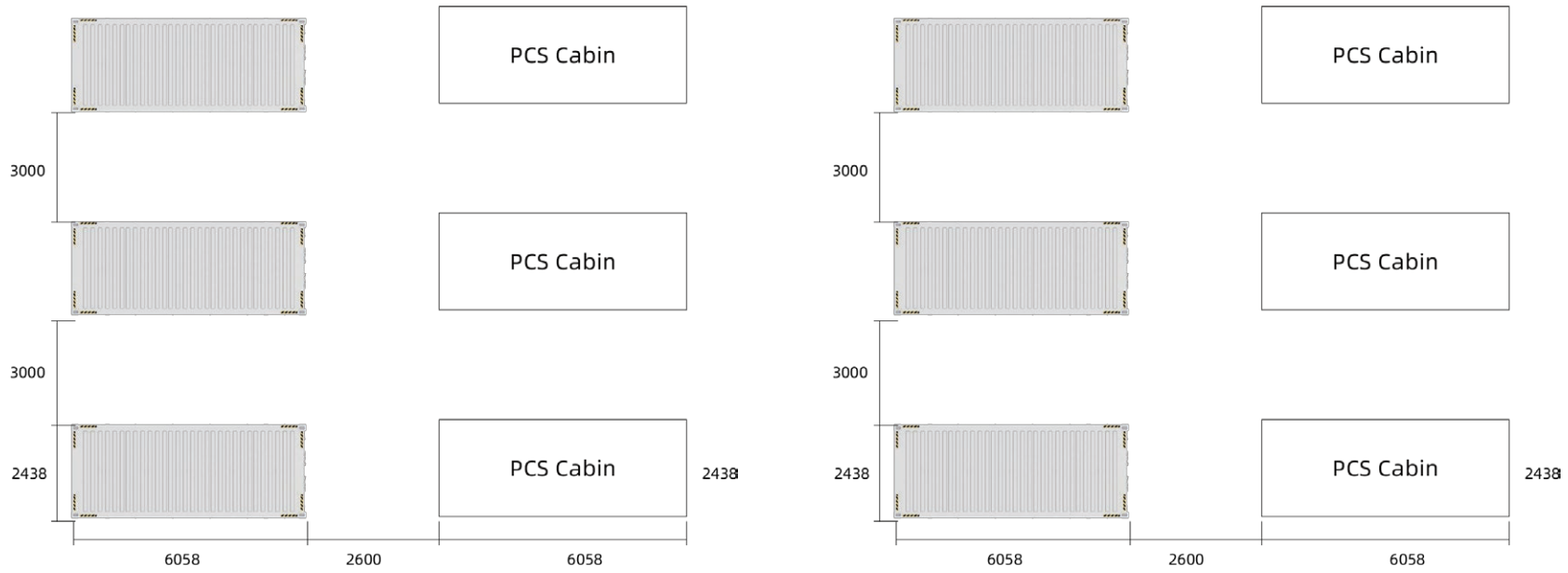
Typical application scenarios/configurations

NO.	Scenarios	Rate	System Configuration	DC Configuration	AC Configuration
1	C&I	0.5P	5MW/10MWh	2*5MWh containers	2*2.5MW PCS integrated warehouse
2		0.25P/0.3P	2.5MW/10MWh	2*5MWh containers	2*1.25MW PCS
3	Public Utility	1P	Non support		
		0.5P	1*5MWh container and 1*2.5MW PCS integrated warehouse comprise the required configuration		
4		0.25P/0.3P	1*5MWh container and 1*1.25MW/1.5MW PCS comprise the required configuration		

Typical application scenarios/configurations, and site layout

① A single ESS is equipped with a 5MWh container and a 2.5MW PCS cabin;

② Evaluate the space required for multiple systems based on the layout of a single system.



Unit： mm