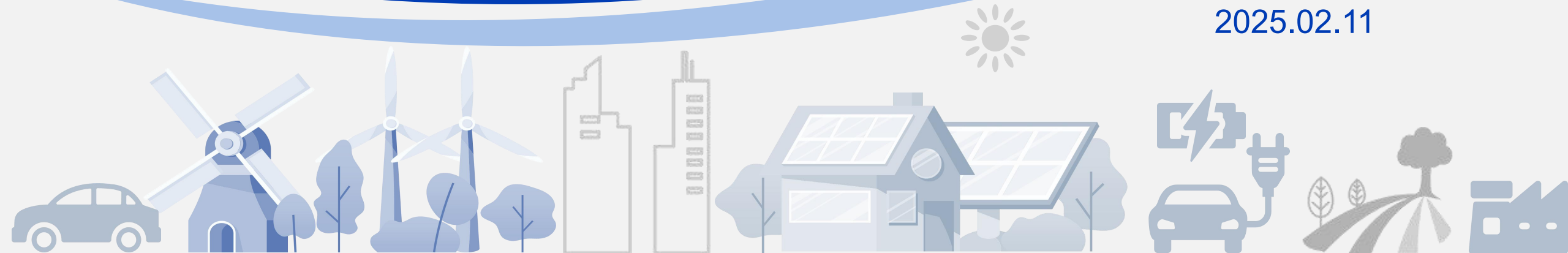


» To Be The World's Leading Clean Energy Service Provider

Camel Energy

2.5MW/5MWh Container Energy Storage Solution

Camel Group Co., Ltd.
2025.02.11



About Camel



Camel Energy Technology Co., Ltd., as a subsidiary of Camel Group Co., Ltd. (SH 601311), is a high-tech enterprise engaged in energy storage system in China. The Company takes the lead in grid energy storage, industrial and commercial energy storage, household energy storage, portable power-supply energy storage, and integrated energy solutions services. Committed to the ambition of zero-carbon clean energy systems, the company complies with the vision of “Be the world's leading clean energy service provider”.

Camel Energy Technology embraces a wide range of core patents related to the energy storage cells, battery modules, battery management systems (BMS), power conversion systems (PCS), energy management systems (EMS), energy storage fire-fighting systems, energy storage cloud monitoring platforms, etc. The company also claims considerable strength in R&D, production, and application in the energy storage industrial chain. Camel's products are applied to various scenarios such as power auxiliary services, renewable energy power plants, industrial users, large and medium-sized communities, industrial and commercial buildings, green energy storage houses, portable energy sources, border islands, data centers, and comprehensive parks, etc.

Camel Energy Technology undertakes the missions of “Providing green power, developing a circular economy, and satisfying the people's desires for a better life”. Through co-operating with universities and science & technology research institutions, Camel Energy aims to scale-up cutting-edge research results into industrial applications and connect technology with low-carbon life. In compliance with the mission “Be the world's leading clean energy service provider” and to provide safer, more efficient, and environmentally friendly clean energy products, Camel Energy is deeply involved in promoting technology research and product innovation. Camel will keep up steady progress together with its clients to deliver the most honorable customer service so as to build a solid framework for a low carbon world.

- Topology of photovoltaic energy storage on grid system

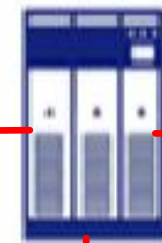
5MWh Battery System



2.5MW PCS+Transformer



AC Distribution Cabinet



Load



5MWh Liquid-cooled container

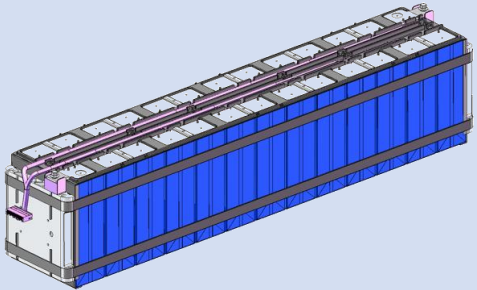

No.	Project	Key parameter		
1	Cell model	3.2V314Ah, LFP		
2	Configuration	12P416S		
3	Nominal capacity (Ah)	3768		
4	Nominal voltage (V DC)	1331.2		
5	DC Side	Operating voltage range (V DC)	1164.8~1497.6	
6		Nominal energy (kWh)	5015.9	
7		Nominal charge/discharge power (kW)	2500	
8		SOC Available Range	5%~95%	
9		System	Dimensions (mm) (Dont include liquid cooling unit)	L6600*W2438*H2896
10			Weight (T)	~45
11			IP protection level	IP55
12			Corrosion protection level	C3
13	Operating Temperature Range (°C)		-30~+50	
14	Operating altitude (m)		≤3000	
15	Thermal management mode		Industrial grade water cooling unit, liquid cooling	
16	Fire protection system		Perfluorohexanone/Aerosol	
17	Communication		Ethernet, CAN, RS485	
18	Number of DC output		1 or 2	



Hump Cube 2.0
Liquid-cooled container



○ Liquid cooled battery pack

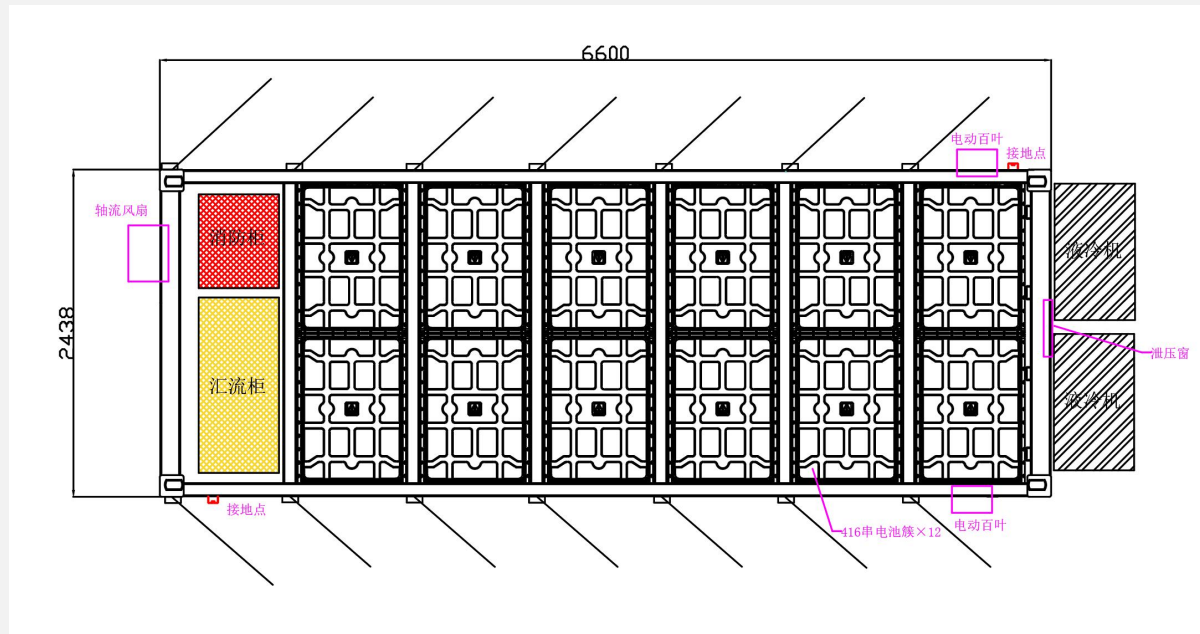
Parameter	Battery module	Battery pack
Appearance		
Configuration	1P13S	1P52S
Nominal voltage (V)	41.6	166.4
Operating voltage range (V)	32.5~47.45	130.0~189.8
Nominal capacity (Ah)	314	314
Nominal energy (kWh)	13.062	52.249
Weight (kg)	77.4±1	340±6
Dimensions (mm)	L982.1*W178.4*H214.5	L1152*W810*H242
Cha/Discharge ratio	0.5P/0.5P	0.5P/0.5P

Liquid cooled energy storage battery pack adopts industry-leading CTP design and integrated liquid cooling technology, group efficiency up to 88%, energy density $\geq 154\text{Wh/kg}$; Battery box adopts integrated aluminum alloy stamping box, light weight, high strength, low cost; The liquid cooling channel adopts the parallel scheme, the flow resistance is small, the heat conduction is uniform, and the temperature difference of a single battery pack is less than 3°C ; Battery pack protection class IP67, internal and external dry and wet separation, reduce the risk of coolant leakage.



○ Hump Cube 2.0

Hump Cube 2.0 integrates battery cluster, bus distribution cabinet, liquid cooling unit, automatic fire protection system, lighting system, pressure relief exhaust system, etc., the system occupies a small area and high energy density. Modular design, easy installation, operation and maintenance, support the overall transportation of containers, effectively reduce the on-site installation and commissioning cycle; High efficiency liquid cooling heat dissipation, temperature difference inside the container $\leq 5^{\circ}\text{C}$; Variable frequency liquid cooling unit, lower power consumption of auxiliary system; Supports battery cluster and battery pack level fire detection, and reserves water fire extinguishing ports.



20 feet liquid cooled container layout

1500Vdc Containerized Energy Storage & Transformer Turnkey System



Items	BCS2500K-B-HUD/T
DC input	
Max. DC voltage	1500Vdc
DC voltage range	1000-1500Vdc
Max. DC current	3086A
AC output (On-grid)	
Rated AC output power	2500kW
Rated grid-tied voltage	690Vac 3P3W+PE
Grid frequency range	50Hz
Max. output current	2302A
Adjustable power factor	1 (leading)~1 (lagging)
AC output (Off-grid)	
Rated AC output voltage	690Vac
Max. output current	2302A
Rated output frequency	50Hz
Overload capability	110% overload
Transformer efficiency	
Rated power	2500kVA
Voltage transformation ratio	0.69/(6-35)kV
Isolation mode	oil-immersed transformer or dry type transformer
General data	
IP rating	IP54
Dimensions (W×H×D)	6058×2896×2438mm
Weight	13000kg
Cooling type	Intelligent air cooling
Communication interface	RS485, Ethernet



THANK YOU!

