

EnerC+ Introduction

SC-ES OES

2022/11/7



EnerC+

Containerized Liquid-Cooling Battery System

| Testing and certification

Basic Parameters

Module configuration	5P*2P52S*8	
Cell capacity	280Ah	306Ah
Rated voltage	1,331.2V	
Rated energy	3.72MWh	4.07MWh
Product weight	35 T	36T
IP Level	IP55	
Dimension (L*W*H)	6058mm*2438mm*2896mm	



IEC 62619



UL 1973



UL 9540A



IEC 62477-1

High level of safety Long service life High integration

- LFP batteries with high thermal stability
- Protection level of IP55 to meet the requirements of outdoor applications
- Resistance up to C5 corrosion level, with 20-year reliability
- Prevention-oriented fire protection strategy, with a separate fire protection system
- **Support explosion-proof fan, Optional dry pipe**

- **Available for integration with CATL's advanced technologies (e.g. optional cell with super-long cycling up to 12,000 cycles)**
- Integrated high-efficiency liquid-cooling system, with the temperature difference in the container limited to 5°C

- Modular design for the 1,500V system
- Separate arrangement of electrical room and battery room for convenient maintenance
- Non-walk-in/modular design with high integration, saving the floor space by 50%
- **Optional DCDC to manage each cluster**
- Prefabricated installation, reducing on-site installation costs and commissioning time



NO.	Type		Description
1	Rated Energy		4.073MWh
2	Cell Cap		LFP-306Ah
3	Rated Voltage		1331.2V
4	Container size		2438 (W)*6058(D)*2896(H)mm
5	Weight		≈36T
6	Charging/Discharging Power		0.5P/0.5P
7	Cooling method		Liquid cooling
8	Color		Gray(RAL7035)
9	IP		IP55
10	Fulfill standard	Cell	UN38.3, GB/T 36276, UL1973, UL9540A, IEC 62619 CB, KC 62619
		Container	UN3536 , UL9540A, UL1973, NFPA 855 , IEC 62619CB, IEC 63056, IEC 62281, IEC 62933-5-2, IEC 62477 CE LVD, IEC 61000-6-2/4, GB/T 36276



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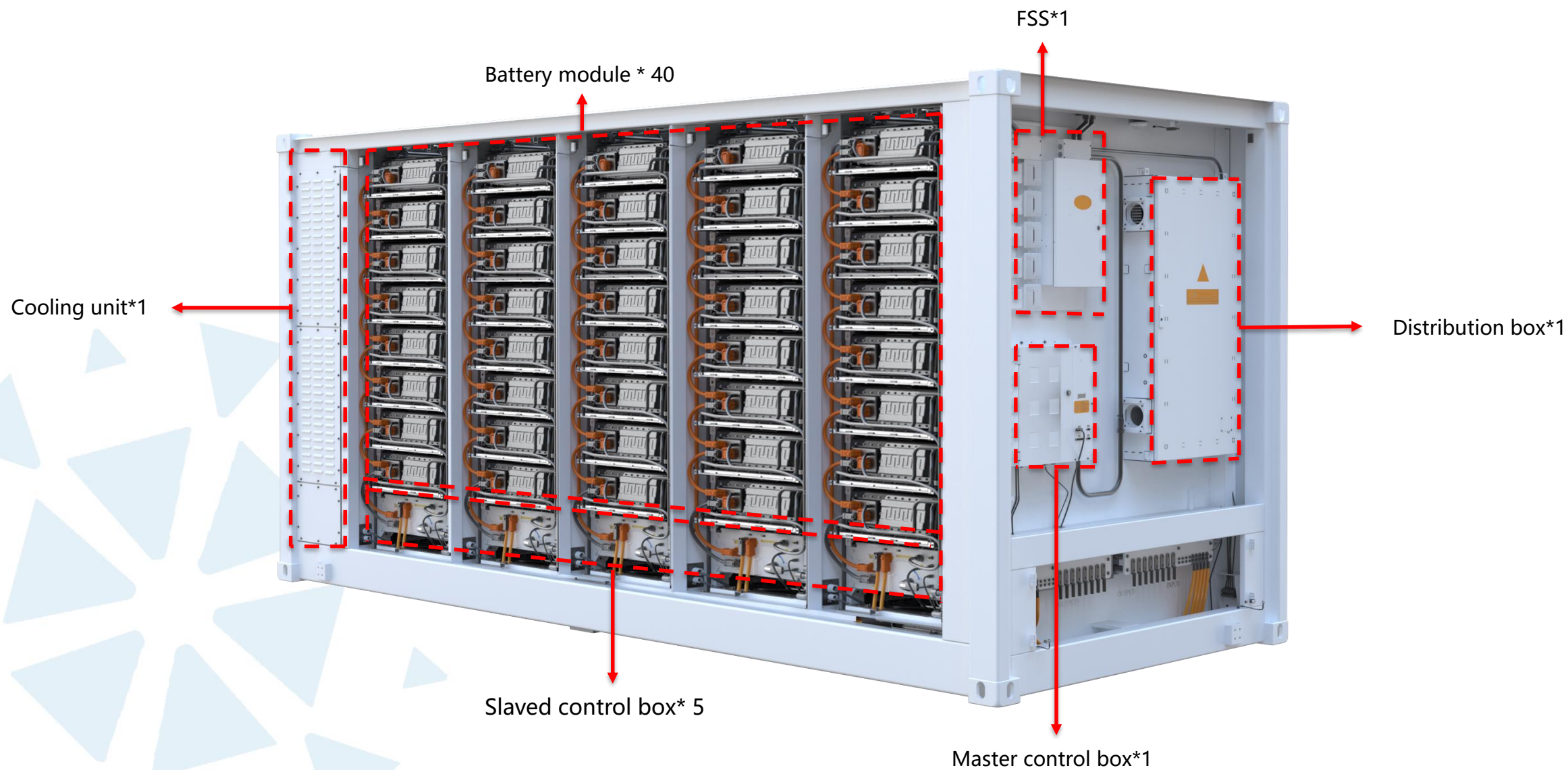


Specification:

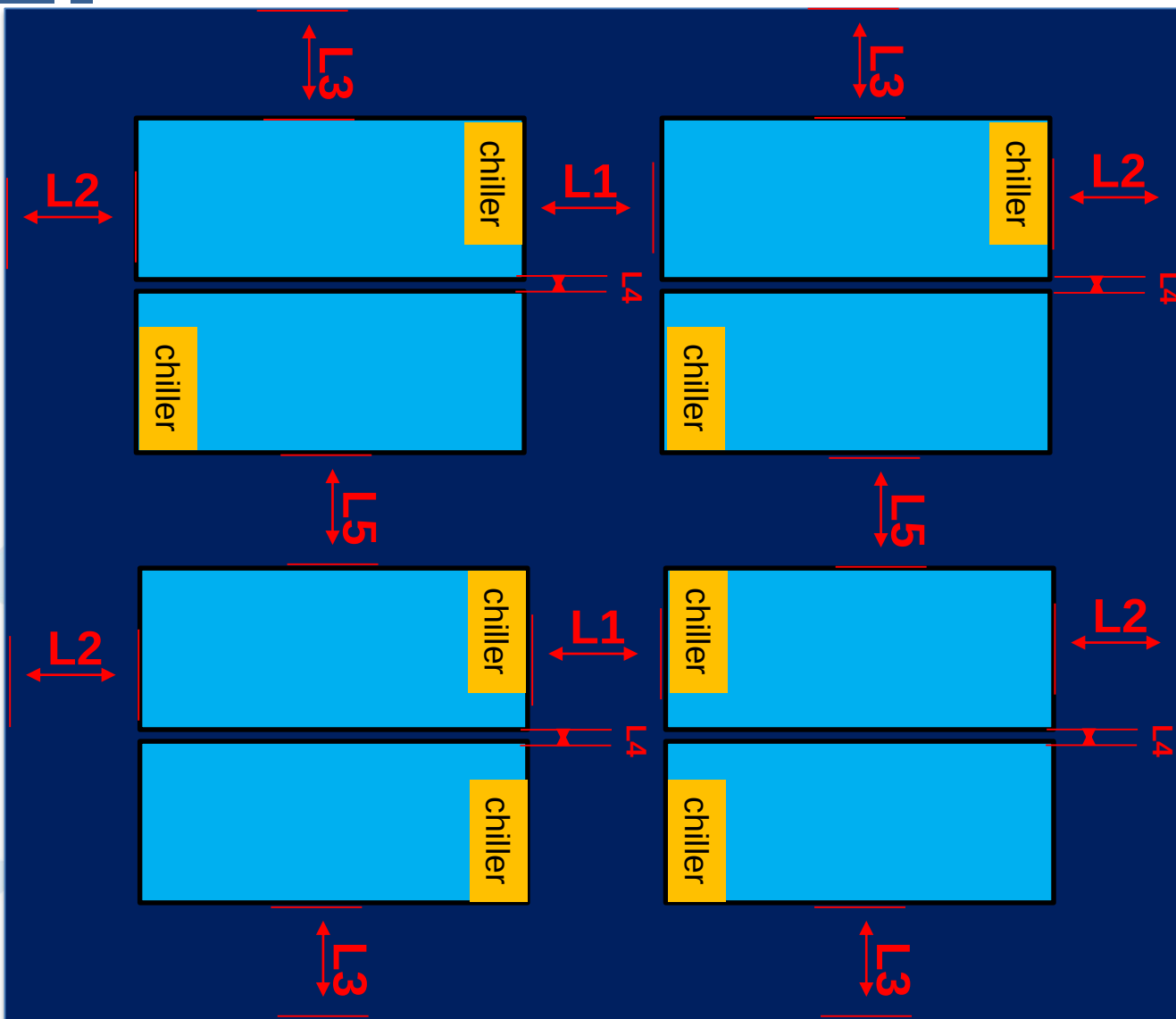


Item	Cell-306Ah	Module	Container
Configuration	/	2P52S	10P416S
Dimension	174(W)*72(D)*207(H)mm	830.0(W)*2206.5(D)*250.0(H)mm	2438 (W)*6058(D)*2896(H)mm
Weight	5.50±0.30kg	~640±5kg	~36000kg
Rated Voltage	3.2V	166.4V	1331.2V
Voltage Range	2.5 ~ 3.65V	145.6 ~ 187.2V	1164.8 ~ 1497.2V
Rated Energy	0.979kWh	101.837kWh	4.073Wh

System Overview---Basic Configuration



4 Part Installation---Layout



To avoid the hot air interaction for two containers, and to maintain the container, the minimum distance must be followed :

L1 : 4.00m (Just for reference, TBD)

L2 : 4.00m (Just for reference, TBD)

L3 : 3.50m

L4 : 0.20m

L5 : 3.50m

L1 : 5.00m (Just for reference, TBD)

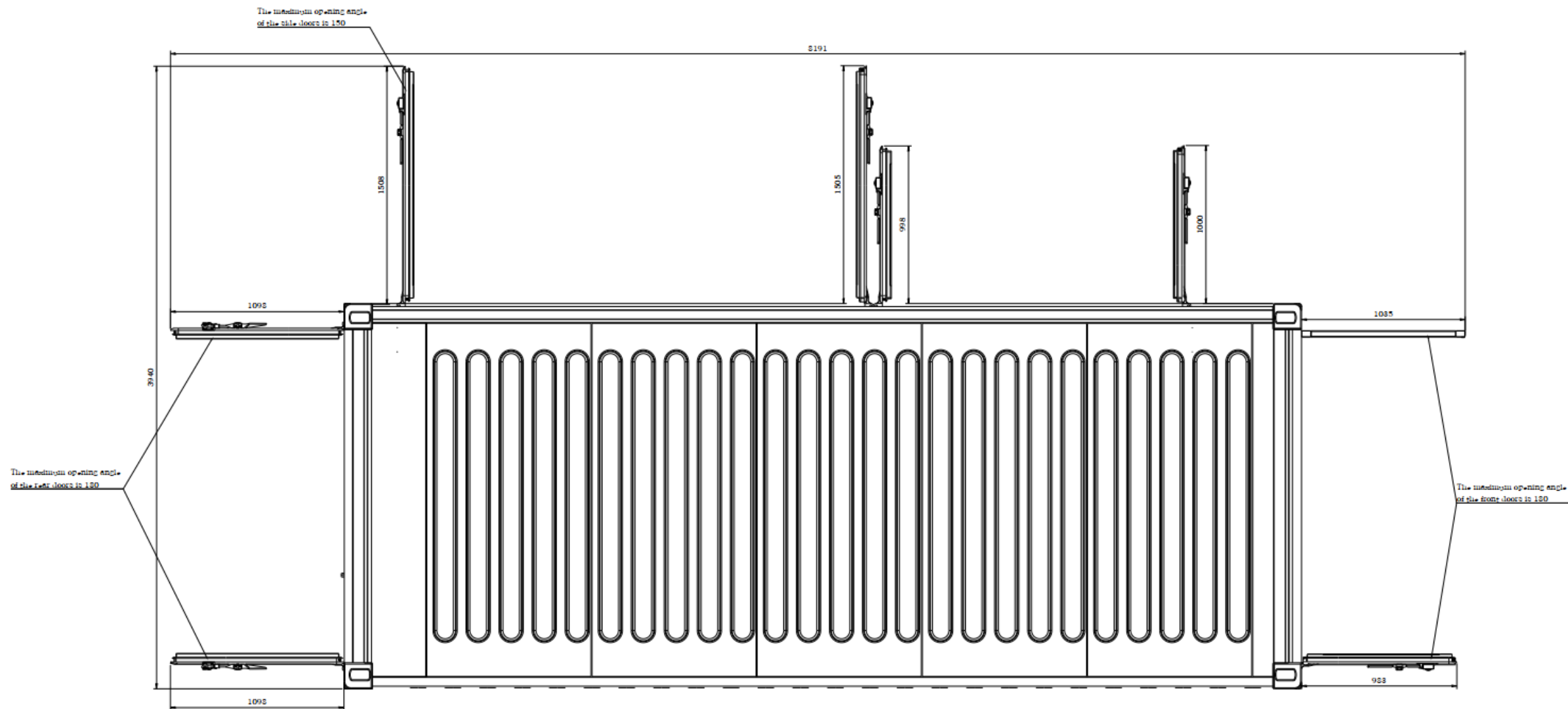
L2 : 2.00m (Just for reference, TBD)

L3 : 3.50m

L4 : 0.20m

L5 : 3.50m

Installation: Space for maintenance



**Rooted in the Chinese culture
while embracing the global
culture, strive to be a global
premier innovative technology
corporation, deliver excellent
contribution to green energy
resolution for mankind!**

