

Product sheet EnerC+ container



Power and Energy

Data of the direct current (DC) side		
Product model	C02306P05L01	Comments
P-Rate	0.5P	
Cell		
Cell type	LFP	
Cell capacity	306Ah	
Cell voltage range	2.5-3.65V	It should not be less than 2.5 V
Rated energy of the cell	979.2Wh	
System		
Configuration	5P2P416S	
Rated energy	4073.47kWh	
Rated voltage	1331.2VDC	
Voltage range	1040~ 1500VDC	
Rated charging current	1530A	
Maximum charging current	1958,4A	For 1 minute
Rated Charging Power	2036.73kW	
Rated discharge current	1530A	
Maximum discharge current	1958,4A	For 1 minute
Rated discharge power	2036.73kW	

Electrical specifications

Auxiliary Power and Communication			
Product model		C02306P05L01	Attention
P-Rate		0.5P	
Auxiliary Power 1	Voltage range	3AC+N+PE 480V(380...480V) $\pm 10\%$, 50/60HZ	
	Power [Energy]	Maximum 37.0kW	As a reference
	Initial inrush current	<67.5A, < 5S	
Auxiliary Power 2	Voltage range	1AC230V(L+N) or 2AC480V(380...480V)	
	Power	Maximum 0.5kW (continuous)	
	Initial inrush current	5A	
UPS	Capacity	DC24V. 7Ah capacity [capacity].@25°C	The UPS is only used to supply power to components BMS. The UPS is located in the auxiliary supply.
Communication protocol		CAN, Modbus/TCP	

Mechanical specifications

Mechanical data		
Product model	C02306P05L01	Comments
Transport	Transport by land or sea	
Size	2896mm(Height)*2438mm(Depth)*6058mm(Width)	
Weight	~36.0t	
Colour	RAL7042 (Optional RAL 9003)	
IP level	IP55 (battery room)	
	IP55 (electrical room)	
	IP67 (electrical control box for the chiller)	

Environmental specifications

State of the Environment		
Specifications	Scope	Comments
Charging Temperature Range	-25°C...+55 °C	It is necessary to inform CATL for professional assessment if the temperature is outside the range
Discharge temperature range	-25T...+55 °C	
Storage Temperature Range	-30°C...+60 °C	
Height of application	<2000m (no derating)	
Relative humidity	0~ 95 % (non-condensing)	
Corrosion protection of the battery unit	C4, (optional C5)	
Seismic level	IEEE 693-2018 Moderate design level	

Certifications and standards

Standards and Certificates		
Cell	UN38.3	UN transport testing for lithium batteries
	UL1973	Batteries/accumulators for use in light electric rail (LER) applications and stationary applications
	IEC62619	Safety requirements for secondary lithium cells and batteries for use in industrial applications
	UL9540A	Energy Storage Systems and Equipment
Container	UL1973	Batteries/accumulators for use in the light electric rail (LER) stationary application
	NFPA855	Standard for the Installation of Stationary Energy Storage Systems
	UL9540	UL Safety Standard for Energy Storage Systems and Equipment
	UL9540A	Test method to assess the spread of fire with uncontrolled temperature rise in battery energy storage systems
	IEC62477	Security requirements for electronic power processing systems and equipment -. Part 1: (Information) General
	IEC62619	Secondary cells and batteries that contain alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries for use in industrial applications
	IEC 62933-5-2	Electric energy storage systems [EES] - Part 5-2: Safety requirements for grid-integrated EES systems - Electrochemical based systems
	IEC 61000-6-2	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
	IEC61000-6-4	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments