

iHouse 20ft- 4.07MWh

0.5C/0.5P Liquid Cooling Battery Container



High Level of Safety

- LFP batteries with high thermal stability
- 3-level of safety and 4-level FES strategy

Long Service Life

- CATL's advanced 306Ah cell
- Integrated high-efficiency liquid-cooling system

High Integration

- Integrated two UPS system
- Modular design for the 1,500V system
- Pre-assembly installation, reducing on-site installation costs and commissioning time

Higher energy density, smaller floor print



CATL LFP cells
379Wh/L
Ultra-high energy density



35% 
Floor print

Applicable to all climate scenarios



IP55 protection level

Optional C5 anti-corrosion level

The safe and reliable operation of the entire system for 20 years.

Product Model		iHouse 4.07MWh	
DC Side Data			
P-Rate		0.5C/0.5P	
Cell			
Cell Type		LFP	
Cell Capacity		CATL 306Ah	
Cell Voltage Range		2.5-3.65V	
Cell Rated Energy		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	
Rated Charging Power		2036.73kW	
Rated Discharging Current		1530A	
Maximum Discharging Current		1958.4A	
Rated Discharging Power		2036.73kW	
Auxiliary Power & Communication			
P-Rate		0.5C/0.5P	
Auxiliary Power 1	Voltage Range	3AC+N+PE 380V~480V ±10%, 50/60HZ	
	Power	Max. 37.0kW	
	Inrush Current	≤67.5A, < 5S	
Auxiliary Power 2	Voltage Range	1AC230(L+N) or 2AC(380-480)	
	Power	Max. 0.5kW (Continuous)	
	Inrush Current	5A	
UPS	Capacity	DC24V. 7Ah capacity.@25℃	
Communication Protocol		CAN, Modbus/TCP	
Mechanical Data			
Size		2896mm(H)x2438mm(D)x6058mm(W)	
Weight		~36t	
IP Level	IP55 (Battery room)		
	IP55 (Electrical room)		
	IP67(Electric control box of chiller)		
Environment Condition			
Charge Temperature Range		-25℃...+55℃	
Discharge Temperature Range		-25℃...+55℃	
Storage Temperature Range		-30℃...+60℃	
Application Altitude		≤2000m (no derating)	
Relative Humidity		0 ~ 95 % (non-condensing)	
Cooling Mode		Liquid Cooling	
Degree of Anti-corrosion of Battery Unit		C4, (optional C5)	
Seismic Level	IEEE 693-2018		
	Moderate design level		
Standards & Certificates			
Cell	UN38.3		
	UL1973		
	IEC62619		
Container	UL9540A		
	UL1973		
	NFPA855		
	UL9540A		
	IEC 62477		
	IEC 62619		
	IEC 62933-5-2		
	IEC 61000-6-2		
	IEC 61000-6-2/4		



DOWELL



linkedin



YouTube

Dowell Technology Co., Ltd
www.dowellelectronic.com
marketing@dowellelectronic.com