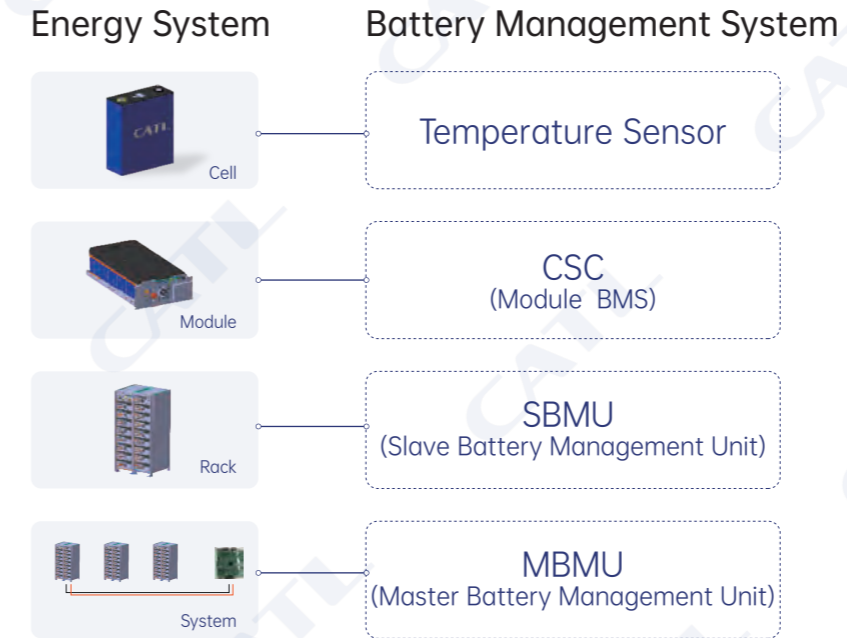




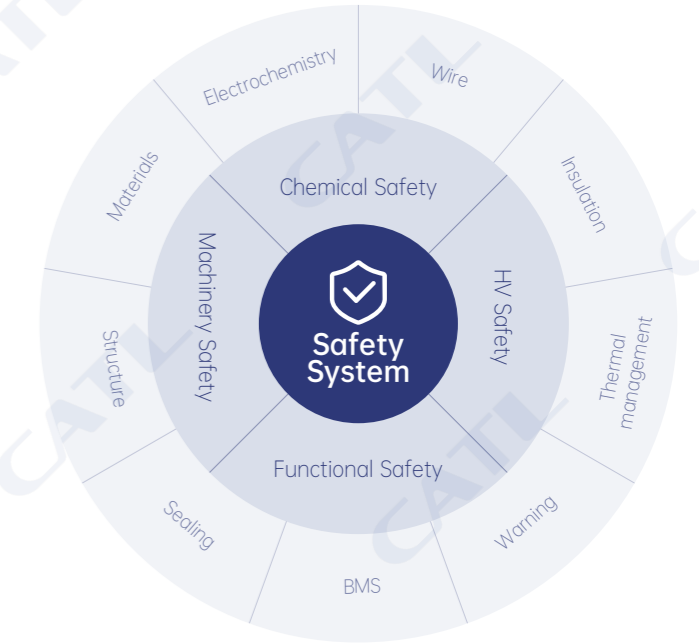
# CATL BESS Product Brochure

CATL-BESS-202009

## CATL BESS Product Structure



## Comprehensive Safety Design



## Safety is CATL's Priority

### Safety Performance

#### UL 9540A Test Summary

- Test condition: no fire protection system
- No propagation to other cells or other modules
- No flaming, flying debris or explosive discharge of gases
- Compliant with NFPA 220 & NFPA 855 requirements

#### Certification



UL 1973 IEC 62477-1 **UL 9540A** IEC 61000-6-2/4 IEC 62619

## Safety is CATL's Priority



**LFP Olivine Struc-**

- Stable Chemical Bonds:
- Thermal Runaway: 800°C




**Prismatic**

- Gas release at designed
- Prismatic Cell Al Can: no deformation/no leakage service life >20 years




**Cell Winding**

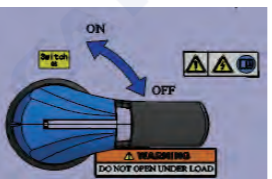
- Stable & reliable structure after long cycles




MSD Switch



Customized 250kA FUSE compatible with multi

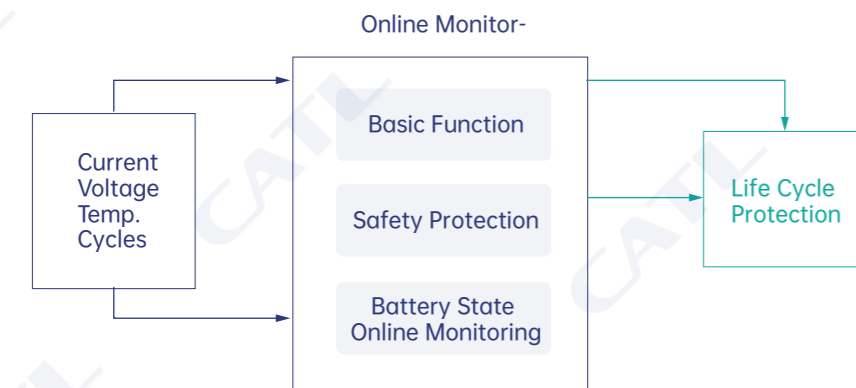


Isolation Switch



Fast Plug

## Safety Management



## Air Cooling Solution



**Cell**  
280Ah

Cell Capacity (Ah)	280	
Charge/ Discharge Rate (P)	0.5	1
Cycle Life (@25°C, @70%Ret)	8,000 (0.5P/0.5P)	8,000 (1P/1P)
Dimension (L*W*H) (mm)	173.9*71.7*207.2	



UL 1973




UL 9540A



**Air Cooling Module**

Product Specification	M20280-E	M20280-P
Duration (h)	h≥2	1≤h<2
Nominal Capacity	17.9	
Dimension	950*516*234	
Cooling	Air	



**Air Cooling Rack**

Product Specification	R1720280-E	R1720280-P
Duration (h)	h≥2	1≤h<2
Nominal Capacity	304.6	
Dimension	1,200*1,000*2,300	
Cooling	Air	

### Comprehensive Test & Certification of Rack



UL 9540A



UL 1973



IEC 62619




IEC 62477-1 LVD



IEC 61000-6-2/4 EMC


## Liquid Cooling Solution




**Cell**

280Ah LFP


Cell Capacity (Ah)	280	
Charge/ Discharge Rate (P)	0.5	1
Cycle Life (@25°C, (0.5P/0.5P)	8,000	8,000 (1P/1P)
Dimension (L*W*H) (mm)	173.9*71.7*207.2	



UL 1973




UL 9540A



**Liquid Cooling Module**

Product Specification	M52280-E	M52280-P
Duration (h)	h≥2	1≤h<2
Nominal Capacity	46.6	
Dimension	1,152*810*243.4	
Cooling	Liquid	



UL 9540A



**EnerOne**

Product Specification	O852280-E	O852280-P
Duration (h)	h≥2	1≤h<2
Nominal Capacity	372.7	
Dimension	1,300*1,300*2,280	
Cooling	Outdoor Liquid	








UL 9540A

UL 1973

IEC 62619






IEC 62477-1 LVD

IEC 61000-6-2/4 EMC



**Indoor Liquid Cooling Rack**

Product Specification	R852280-E	R852280-P
Duration (h)	h≥2	1≤h<2
Nominal Capacity	372.7	
Dimension	924*1,185*2,329	
Cooling	Indoor Liquid	

UL 9540A


UL 1973

IEC 62619

IEC 62477-1 LVD

IEC 61000-6-2/4 EMC

## CATL Residential Product



**100Ah-4.3U LFP**

Cell Capacity (Ah)	100
Charge/ Discharge Rate (C)	1
Cycle Life (25°C, 0.5C/0.5C, @70%Ret)	6,000
Dimension (L*W*H) (mm)	200.3*33.2*172.2

### Comprehensive Testing & Certification





**100Ah-3U LFP**

Cell Capacity (Ah)	100
Charge/ Discharge Rate (C)	1
Cycle Life (25°C, 0.5C/0.5C, @70%Ret)	5,300
Dimension(L*W*H) (mm)	160.0*49.9*116.0

### Comprehensive Testing & Certification



Our products are available around the world and have been proven safe in their operation.