

CATL BESS Product Brochure

CATL-BESS-202009

CATL BESS Product Structure

Energy System



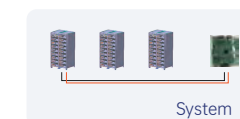
Cell



Module



Rack



System

Battery Management System

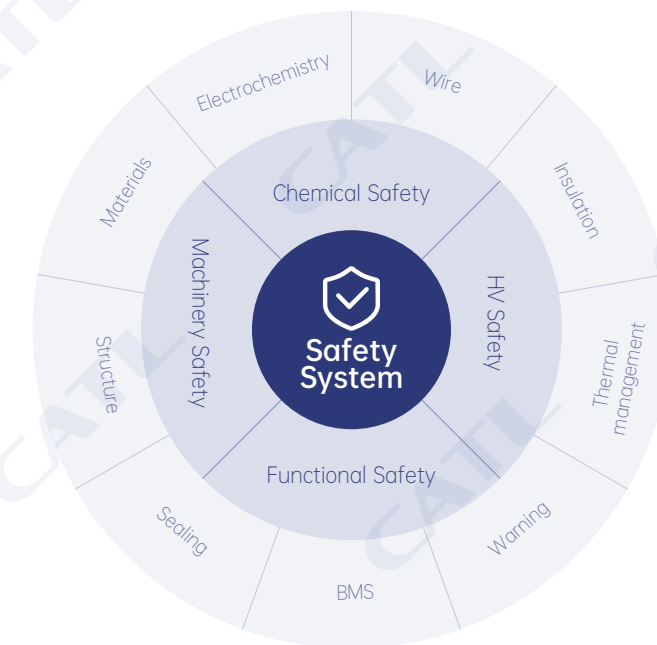
Temperature Sensor

CSC
(Module BMS)

SBMU
(Slave Battery Management Unit)

MBMU
(Master Battery Management Unit)

Comprehensive Safety Design



Safety is CATL's Priority

Safety Performance

UL 9540A Test Summary

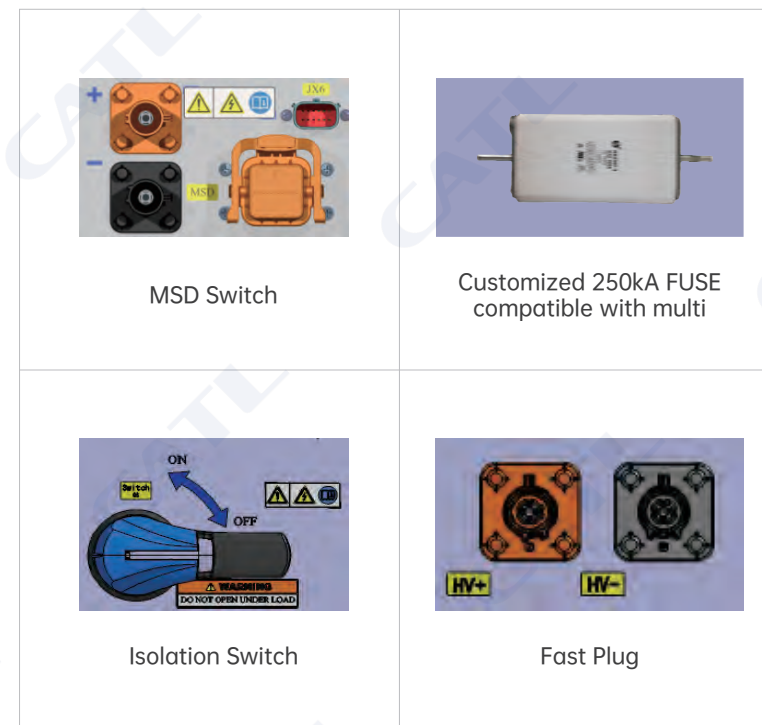
- Test condition: no fire protection system
- No propagation to other cells or other modules
- No flaming, flying debris or explosive discharge of gases
- Compliant with NFPA 220 & NFPA 855 requirements

Certification

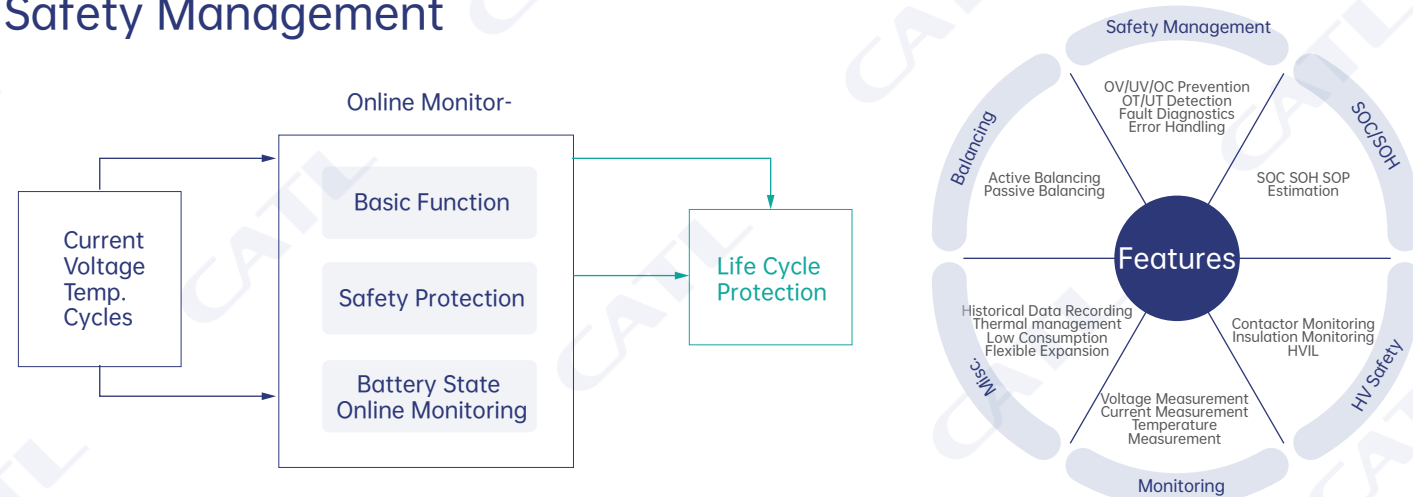


UL 1973 IEC 62477-1 **UL 9540A** IEC 61000-6-2/4 IEC 62619


Safety is CATL's Priority




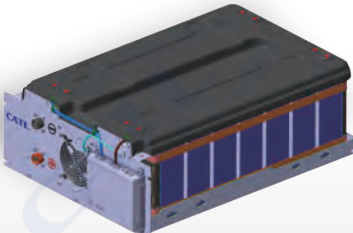
Safety Management




Air Cooling Solution



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	



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




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




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



IEC 62619



JIS 8715-2




UL 1973



UN 38.3



SII Crush & Nail



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



IEC 62619



IEC 62133



UL 1642



UN 38.3



Our products are available around the world and proved to run safely as well as