

# BYD-20ft ESS

CS20H-B3168-E-R2M01  
CS20H-B2982-E-R1M01

The 20-foot container compacts with the dimension of standard shipping container, carries the BMS technology platform of MC Cube products, can be available for 1/2/8 outputs and match with different PCS, fills the 1C/0.5C application of MC Cube products, rationalize the module size to effectively reduce maintenance space.

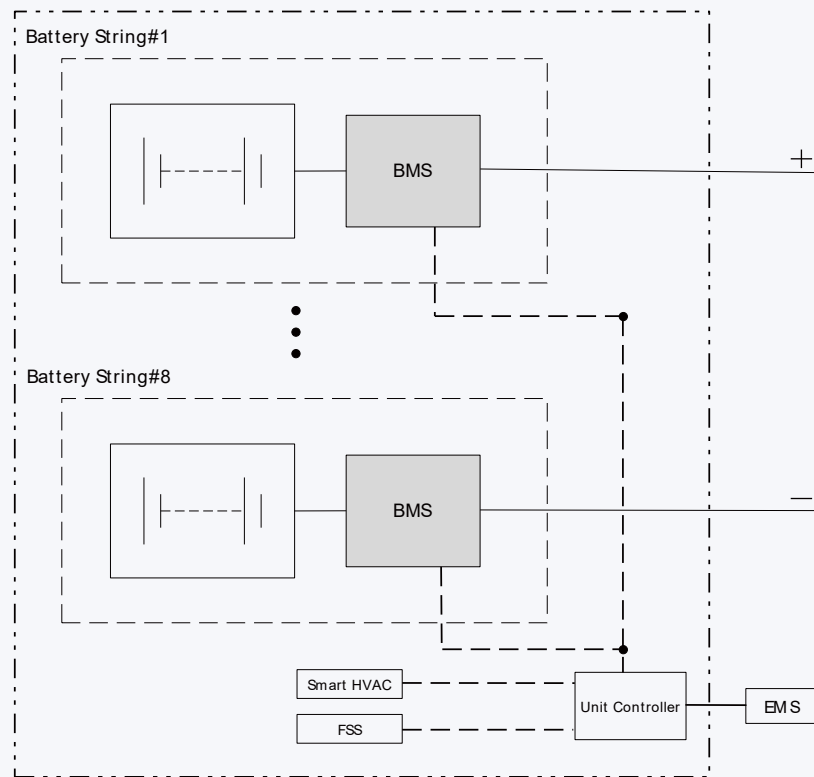


## SYSTEM FEATURES

**Lower Shipping Cost**  
20 feet standard container size.  
Weight less than 35t.

**Flexible Configuration**  
8 strings of batteries can be independently output.  
Centralized combined application is also available.

## CIRCUIT DIAGRAM



## 系统参数

System Type	CS20H-B3168-E-R2M01	CS20H-B2982-E-R1M01
<b>DC Data</b>		
Cell type	LFP C15-340Ah	LFP C15-320Ah
Pack type	1P52S	1P52S
Rack size	1P364S (7 Packs)	1P364S (7 Packs)
System configuration	8 × 1P364S	8 × 1P364S
Battery capacity (BOL)	3168kWh	2982kWh
DC usable energy (BOL) @FAT	2946kWh	2713kWh
DC usable energy (BOL) @SAT	2857kWh	2631kWh
Battery voltage range	946.4 ~ 1310.4V	946.4 ~ 1310.4V
Nominal power	1428.5kW	2631kW
<b>General Data</b>		
Cabinet Type	Standard HQ	Standard HQ
Dimension (W×D×H)	6058×2438×2896mm	6058×2438×2896mm
Weight	< 35T	< 35T
IP rating	IP55	IP55
Anti-corrosion Grade	C4	C4
Operating ambient temperature range	-30°C ~ +55°C 【1】	-30°C ~ +55°C 【1】
Relative humidity	5% ~ 100%	5% ~ 100%
Max. Working altitude	≤2000m 【2】	≤2000m 【2】
Cooling concept	Liquid cooling	Liquid cooling
Noise	≤75dBA	≤75dBA
Fire suppression system	NOVEC1230/FM200/Water Sprinkler System 【3】	
Auxiliary system nominal power	27kW	52kW
Auxiliary system voltage	400V	400V
Auxiliary system wiring	3P4W	3P4W
Auxiliary system peak power requirement @45°C, PF=0.8	33.75kVA	65kVA
Communication interfaces	Ethernet	Ethernet
Communication protocols	Modbus TCP/IP	Modbus TCP/IP
Standard color	RAL 9003	RAL 9003
Compliance	UN38.3, UN3536, UKCA, CE Marking, NFPA69, IEC62619, IEC60356	

Annotation:

- 【1】 Power derating when environment temperature is lower than -15°C or higher than 40°C.  
 【2】 When the altitude is between 2000-3000m, the output of the system will be de-rated.  
 【3】 FM200/NOVEC1230 and water spray system are optional.