

High Integration

- As 306 Ah cells were initially adopted in this PowerSupply System, 320 Ah cells are recommended forcapacity expansion.
- The System facilitates two specifications as 3.7MWh/20HQ and 7.6MWh/40HQ in installation completion design for an easy-transportation of the complete equipment. The System facilitatesstacking and stowage for two containers to save space.



High Security

- The"2+2" fire prevention and control measures include fireprotection at module level +fire protection at the containerlevel, fire protection with gas +fire protection with water.combustible gas detection, combustible gas venting, and explosion relief.
- With a DC 5000V withstand voltage without flash-over, multi-level disconnection protection mechanism, pack protectionlevel is IP67, 1000 hours high-temperature reliability test forthe pipeline, and The enhanced UL standard was used to examine the effects of thermal runaway.



Long-life

- The adoption of centralized refrigeration, multi-stagepipelines, and co-current flow in parallel flow design facilitates temperature difference of 3 C for the Containerized BatterySystem.
- Special cells with a standard cycle of 10000 timesdedicated for energy storage adopted in the Systemsecures a continuous operation for 20 years.
- The three-level BMS architecture of General Control.Master Controland Slave Control is compatible withlocal EMS functions and various mainstreamcommunication protocols.

Outdoor Liquid Cooling BESS Cabinet

	em Technical Specification	
Itcm	Spec	Remark
Product Code	MATRIX 20	TBD
Configuration	416s10p	
Rated Energy	3727.36kWh	100%DOD, 25°C, 0.5C
Rated Voltage	1331.2V	
IP level of cabin	Bat. Room IP54 Electric room IP54	
Efficiency	≥92%	
Insulation standard	≥10000Ω/Y	Test voltage 1000Vdc
Resistant to high voltage	5000VDC leakage current≤5mA no breakdown or filashovcr	
Cooling and heating type	Liquid coolingy heating	
Refrigerating Capacity	40kW @ 35°CEt 35kW @ 45°CEt	
Heating Capacity	16kw	
Auxiliary powersupply	Aver 18KW Max: 23KW	Indluding BMS and cooling sys
Communicaton aprecment	CAN,RS485.TCP/IP	
	UN38.3 UL1973 13062619, UL9540A GB/T 36276	For cell
Implementation entcria	EC62477,1EC626191EC62933-5-2 15063056 11973UL9540AUL9540UN3536	For system
Operating Voltage Range	1164.8-1497.6V	For cell 2.8V-3.6V
Dimension	6058mmx2438mmx289Gmm	
Mass	3500kg	
Stand ard charging method	Charge1400A constantatcurrent until any cell reaches3.65V, then charge to 3.65Vaccording to 1/2 current yalue of the previous process the lastcharging current is 140A	25°C±2°C
Stand ard dischargingmethod	Discharge at 1400A until anycell reaches a cutoff yoltage of 2.5W	25°C±2°C
Rated charge current	1400 (for 0.5P system)	According to currentmap (5.1
Rated discharge current	1400A (for 0.5P system)	According to currentmap (5.1
Short oerload chargingcurent(< min)	2800A (for 0.5P system)	Aeeording to curentmap (5.1-
Short overioad chargingcuient(<lmin)< td=""><td>2800A (for 0.5P system)</td><td>According to curentmap (51-</td></lmin)<>	2800A (for 0.5P system)	According to curentmap (51-

Related certificates











