REPT BATTERO

Powtrix[™] 2.0 5.015MWh Battery System





5.015MWh

High Energy



High Safety

Multi-factor safety matrix analysis and measures

Seismic Resistance

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Suitablefor high-intensity seismic zones inaccordance withIEEE693 standard



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3°C

Intelligent Temperature Control

Y104R04C12
416S12P
CAN, RS485, TCP/IP
Liquid cooling / heating
-30°C-55°C
De-rated over 3,000 meters

Electrical Parameters

Electrical Falariteters		
Withstand voltage	4500Vd.c., leakage current ≤5mA,	
Short circuit current	130.56kA@12 strings	13.6kA @1 string
Rated energy	5015.9kWh	100%DOD, 0.5P
Rated voltage	1331.2V	
Operating voltage range	1040V~1500V	
Rated charge power	2500kW(0.5P)	According to power map
Rated discharge power	2500kW(0.5P)	According to power map
Short peak charging power	5000kW/@60s	According to power map
Short peak discharging power	5000kW@60s	According to power map
Auxiliary power supply	400Vac.50Hz.3L/N/PE(EU) 480Vac.60Hz.3L/N/PE(US)	
DC side output form	1/2/12 outputs(optional)	
Mechanical Parameters		
Mass	~44.5t	
IP level	IP55	
Dimension	6058mm×2438mm×2896mm	L×W×H, 20HQ
Certification		
Standard	UL9540A-2019,UN38.3,RoHS,CBT36276-2023	For module
	UL9540A-2019,UL1973-2022,IEC62477-1-2012 IEC62619-2022,IEC63056-2020,IEC60730-1-2022,CBT36276-2023	For string
	UL9540-2023,NFPA68-2023,NFPA69-2024,NFPA855,UN3536 IEC62477-1-2012,IEC62933-5-2-2022,IEC61000-6-2-2016,RoHS IEC61000-6-4-2018,IEEE Std 693-2018,ISO3744-2010,REACH	For container

Product Features

High Safety 🔂

- UL9540A thermal forced spread test evaluation results are excellent, combustible gas monitoring, pressure relief and explosion protection meet NFPA68, NFPA69 specifications;
- "2+2" fire prevention and control measures: The design adopts the modular built-in fire suppression & container firefighting system multiple configuration;
- Insulation strength of the system is sufficient, and no breakdown or flashover in 5kVd.c. withstand test. The DC circuit is equipped with multi-level disconnections, whitch are multiple configuration;
- Large scale fire impact assessment test results were good, no propagation to adjacent container.

Extremely long life

- Thermal management design adopts centralized cooling, multistage shunt, parallel flow channel, throttling control. The temperature difference of cells in the module is 2°C, and that is 3°C for container level;
- Protection is in place and reliable and durable. The protection grade of the enclosure is IP55, the anti-corrosion grade is C4/C5, and the high voltage module is IP67;

Solid and reliable

- Adaptive design, module structure retention and internal force release optimization in the whole life cycle:
- Excellent steel structure stability, 2 times lifting load, 10 times ballast performance recognized by classification society;
- The overall structural stability meets IEEE693 high level earthquake tolerance;
- Electrical components are tested for high temperature durability at 60°C; The liquid cooling pipeline is checked at 1000 hours of high temperature cycle;

Relevant certifications

