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REPT BATTERO

TESS3727

3,727 MWh Energy Storage System

3,727MWh
High Energy

HIGH SAFETY
Multi-factor safety matrix analysis and measures

SEISMIC RESISTANCE
Suitablefor high-intensity seismic zones inaccordance withIEEE693 standard

3°C
Intelligent Temperature Control

TEKSAN ENERGY STORAGE SYSTEM

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Datasheet		
Product Model	Y52R08C10	
Configuration	416S10P	
Communication protocol	CAN, RS485, TCP/IP	
Cooling and heating type	Liquid cooling / heating	
Operating ambient temperature	-20°C~55°C	
Altitude	De-rated over 3,000 meters	
Electrical Parameters		
Withstand voltage	4500Vd.c., leakage current ≤5mA	
Short circuit current	109.8kA@10 racks	13.1kA @1 rack
Rated energy	3727.36kWh	100% DOD, 0.5P
Rated voltage	1331.2V	
Operating voltage range	1040V~1500V	
Rated charge power	1863.5kW(0.5P)	According to power map
Rated discharge power	1863.5kW(0.5P)	According to power map
Short peak charging power	3727kW@60s	According to power map
Short peak discharging power	3727kW@60s	According to power map
Auxiliary power supply	400Vac,50Hz,3L/N/PE(EU) 480Vac,60Hz,3L/N/PE(US)	
DC side output configuration	1/2/12 outputs(optional)	
Mechanical Parameters		
Mass	~36t	
IP level of enclosure	IP55	
Dimension	6058mm×2438mm×2896mm	L×W×H, 20HQ
Certification		
Standard	UL9540A-2019, UN38.3, ROHS, GBT36276-2018	For module
	UL9540A-2019, UL1973-2022, IEC60730-1-2022 EC62619-2022, IEC63056-2020, GBT36276-2018	For string
	UL9540-2023, UN3536, NFPA69-2019	For container

Product Features

High Safety

- UL9540A thermal forced spread test evaluation results are excellent, combustible gas monitoring, pressure relief and explosion protection meet 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 su cient, and no breakdown or flashover in 5kVdc. withstand test. The DC circuit is equipped with multi-level disconnections, whitch are multiple configuration.

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 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

- The electrical components and thermal management parts have undergone long-term high-temperature and high-humidity aging tests and possess outstanding durability.
- Excellent steel structure stability, 2 times lifting load, 10 times ballast performance recognized by classification society.
- Adaptive design, module structure retention and internal force release optimization in the whole life cycle;

Relevant Certifications

MSDS · CSA GROUP · RoHS · CE · IEC · UL · UN38.3 · GB

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AC Output Data (On-grid)	
AC output power	2050kVA@30°C, 1865kVA@45°C
Nominal AC voltage	690V,3W+PE
AC voltage range	607~759V (Adjustable)
Max. AC output current	1717A@30°C, 1562A@45°C
Nominal grid frequency	50/60Hz
Harmonic (THDi)	<1.5% (100% load)
Power Factor	-1~+1
AC Output Data (Off-grid)	
Nominal AC voltage	690V,3W+PE
AC voltage range	607~759V (Adjustable)
AC voltage distortion	<1.5% (100% linear load)
DC voltage component	<0.5% Un (Linear balance load)
Unbalanced load capacity	100%
Nominal grid frequency	50/60Hz
Efficiency	
PCS Efficiency	98,50%
Protection	
Battery Reverse Polarity Protection	Integrated
DC Surge Protection	Integrated
Anti-islanding Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short Circuit Protection	Integrated
AC Surge Protection	Integrated

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