

REPT  
BATTERO

# Powtrix™ 1.0

## 3.727MWh Battery System

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**3.727kWh**

High Energy



**High Safety**

Multi-factor safety  
matrix analysis and  
measures



**Seismic Resistance**

Suitable for high-intensity  
seismic zones in accordance  
with IEEE 693 standard



**3°C**

Intelligent  
Temperature Control

## Datasheet

Product Model	Y52R08C10
Configuration	416S10P
Communication protocol	CAN, RS485, TCP/IP
Cooling and heating type	Liquid cooling / heating
Operating ambient temp	-30°C-55°C
Altitude	De-rated over 3,000 meters

## Electrical Parameters

Withstand voltage	4500VDC, 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 sufficient, and no breakdown or flashover in 5kVdc. withstand test. The DC circuit is equipped with multi-level disconnections, which 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℃, and that is 3℃ 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

