REPT BATTERO

Powtrix™ 3.0
6.261MWh Battery System

6.261MWh

High Energy

High safety

Multi-factor safety matrix analysis and measures

Active Balancing

Improved balancing efficiency
Further increase available energy

3℃

Intelligent Temperature Control

Datasheet

Product model	Y104R04C12	
Configuration	416S12P	
Communication protocol	CAN, RS485, TCP/IP	
Thermal management methods	Liquid cooling / heating	
Operating ambient temperature	-30℃~55℃	
Altitude	De-rated over 3,000 meters	

Electrical Parameters

Withstand voltage	4500Vdc, leakage current ≤5mA,	
Auxiliary power supply	400Vac,50Hz,3L/N/PE(EU) 480Vac,60Hz,3L/N/PE(US)	
Rated energy	6261.9kWh	100%DOD， 0.25P
Rated voltage	1331.2V	
Operating voltage range	1040V~1500V	
Rated charge power	1565.5kW(0.25P)	According to power map
Rated discharge power	1565.5kW(0.25P)	According to power map
Peak charging power	3131kW@60s	According to power map
Peak discharging power	3131kW@60s	According to power map
Dc side output configuration	1/2/12 outputs(optional)	

Mechanical Parameters

Mass	~49t	
IP level of enclosure	IP55	
Dimension	6058mm×2438mm×2896mm	L ×W ×H， 20HQ

Certification

Standard	UL9540A-2019, UN38.3, RoHS, GBT36276-2023	For module
	UL9540A-2019, UL1973-2022, IEC62477-1-2012 IEC62619-2022, IEC63056-2020, IEC60730-1-2022, GBT36276-2023	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 Performance

- Compared with the 5MWh system, the energy density is increased by 20%, the plant station land usage is saved by 16%, and the site working hours are reduced by 18%;
- Based on the "Wending" technology, the round-trip efficiency (RTE) and cycle life are significantly improved;
- The application of active balancing technology improve the balancing efficiency and further increases the available energy.

High Reliability

- Upgraded base on 300Ah-series cell products, ensuring higher product maturity and process reliability;
- The overall container structure stability meets the high-level standards of IEEE693;
- Multiple active and passive thermal runaway protections at the module level, combined with the container-level fire protection system, effectively suppress the thermal runaway propagation.

High Flexibility

- Compatible with a wide range of application scenarios, being suitable for both 2h and 4h+ energy storage systems;
- Supports 1, 2, and 12 DC output channels, which can be matched with the access of various PCS;
- Support no coolant drain maintenance. Significantly improve the system availability by combining with the BMS automatic exit and entry strategy.

Relevant certifications