



FEATURES



High Level of Safety

- LFP cell with high thermal stability
- Protection level of IP55 for outdoor applications
- Resistance up to C5 corrosive level
- 5 level safety design, dual fire protection, with combustible gas emission and explosion venting design



EMS

- Equipped with customized EMS Nova Grid
- Use cloud and local dual systems for monitoring and emergency control, therefore improving system reliability
- Implant AI to realize intelligent charge and discharge planning and maximize trading profits



Flexibility and Efficiency

- Supports plug and play combination of two containers, which is suitable for the application of large energy storage power stations
- Efficient design suitable for ease of shipping and handling globally



Long Service Life

- Innovative liquid-cooling technology extends battery life more than 20%
- Solves the problem of loop current between racks, improves the battery availability by 7%, supports the mixing of old and new batteries and phased deployment, and reduces LCOS by 20% during its lifetime

Technical Parameters

U1

Rated Energy

2752kWh

Cell

Chemistry
Specifications
Calendar life

LFP
3.2V/280Ah
20 years

Battery Pack

Combination
Rated voltage
Operating voltage range
Rated energy

1P48S
153.6Vdc
134.4Vdc ~ 172.8Vdc
43kWh

Battery Rack

Rated voltage
Operating voltage range
Rated energy

1228.8Vdc
1075.2Vdc ~ 1382.4Vdc
344kWh

Battery Container System

DC round trip efficiency
Rated voltage
Operating voltage range
Rated C-rate
Max. C-rate
Operating temperature range
Storage temperature range
Relative humidity
Altitude
Cooling mode
Fire suppression
Auxiliary power input range
Battery management system(BMS)
Communication interface
Communication protocol
Codes-compliance
Protection level
Anti-corrosion grade
Dimensions (W*D*H,mm)
Weight

> 93%
1228.8Vdc
1075.2Vdc~1382.4Vdc
0.5 C
1 C
-30°C ~ 55°C
-40°C ~ 60°C
0~100% (no condensation)
≤3000m (Derating over 3000m)
Liquid cooling
Pack level fire protection (Novac 1230) + Water fire protection +
Combustible gas detection+ Exhaust ventilation + Deflagration venting
Three-phase 400V/50Hz, 480V/60Hz
Three levels +Passive balance 200mA(Active balance 2A optional)
CAN/RS485/Ethernet
Modbus-RTU/Modbus-TCP/IEC 61850
NFPA68/69,NFPA855,GB36276,IEC62619,IEC62933,UN38.3 ,UN3536,UL1973,UL9540A
IP55/NEMA 3R
C3 (C5 optional)
6058*2438*2591mm
29 T

* Specifications are subject to change without prior notice.

