



Parameter lis	t
Cell type	LFP 3.2V314Ah
Battery pack configuration	52.25kWh / 1P52S
Battery system configuration	1P416S (1P52S*8)
Rated voltage	1331.2V
Voltage range	1164.8V ~ 1497.6V
Rated energy	418kWh
DOD (max/recommended)	100% / 90%
Discharge cut-off voltage	1164.8V or any cell in battery cluster reaches 2.8V (T > 0°C)
Charge cut-off voltage	1497.6V or any cell in battery cluster reaches 3.65V
Rated charge/discharge current	157A
Charge & Discharge rate	≤0.5P
Cycle life	6000
Protection rating	IP54
Overvoltage protection	YES
Thermal management	Liquid cooling
Liquid-cooling capacity	5kW
Cooling medium	50% glycol aqueous solution
Fire protection system	Perfluorohexanone / Water firefighting
Working temperature	-20 ~ 50°C(discharge) 0 ~ 50°C(charge)
Working humidity	0 ~ 95% (Condensation-free)
Storage temperature	-20 ~ 50°C
Altitude	≤3000m (derated use above 2000m)
Noise	≤75dB
Weight	3800kg
Dimension (W*D*H)	1300*1350*2305 mm
Inlet method	Down in and out
Communication interface	RS485 / Ethernet / CAN

## Battery module

Adopting 3.2V314Ah\*52 LFP cells, connected in 52 series and 1 parallel (52S1P) to form a 166.4V314Ah battery module; Module built-in BMU systems, collect single cell's voltage and temperature, and manage equalization of cells, ensuring the safe and efficient operation of the whole module.



## **Product features**

- $\star$  Adopting square LFP 314Ah high-energy battery cell, with high energy density, stable and reliable performance and long service life.
- ★PACK includes MSD (built-in fast fuse), high-voltage waterproof snap-in connector
- ★Liquid-cooling heat dissipation, reserving liquid cooling channels, and adopting snap-in liquid cooling tube connectors.
- ★High-accuracy BMU, collecting the temperature and voltage of each cell, ensuring the safe and stable operation of the equipment.
- ★PACK-grade fire protection: each PACK is equipped with composite detector (built-in), PACK-grade spray head, and single-zone puncture valve.

Parameter list			
Cell type	LFP 3.2V314Ah		
Component part	52Cells, BMU		
Rated energy	52.25kWh		
Connection mode	52S1P		
Nominal voltage	166.4V		
Working voltage	145.6V ~ 189.8V		
Rated charge & discharge rate	≤0.5P		
Terminal output	High voltage waterproof snap-in connector		
Thermal management	Liquid cooling		
Cooling medium	50% glycol aqueous solution		
Working temperature	-20 ~ 50°C (discharge) 0 ~ 50°C (charge)		
Working humidity	0 ~ 95% (Condensation-free)		
Storage temperature	-20 ~ 50°C		
Protection rating	IP65		
Communication method	CAN		
Dimension (W*D*H)	785*1174*248mm		
Weight	350kg		