All-in-one Liquid-cooled On/off-grid ESS Container

Model: LA2-500-1044K
1.044 MWh



- Each battery cluster is independently managed,enhancing system reliability and stability
- The system is equipped with an integrated STS,enabling seamless on-grid and off-grid switching within 20ms.
- Highly integrated 3S system, cooling system,and fire protection system, delivering greater capacity within a smaller footprint.
- Equipped with reserved interfaces for diesel generator and PV inverter, the system supports multiple power sources, making it suitable for a wide range of application scenarios.

Green energy, better life.

Battery Side	
Cell Type	LFP / 314 Ah
Pack Configuration	52.2 kWh / 1P52S
System Configuration	1044 kWh / 4P260S
Rated DC Voltage	832 V
DC Voltage Range	728 ~ 936 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 ± 2 °C)
Grid Side	
Rated Output Power	500 kW
Max. Apparent Power	550 kVA
Rated AC Voltage	400 V
AC Voltage Range	±15%
Grid Type	3W+N+PE
Rated Frequency	50 Hz / 60 Hz
On/off-grid Switching Time	<20 ms
Power Factor	0.99/ -1 ~ +1
THDi	⩽ 3%
DC Ratio	＜ 0.5% Ipn
Backup Side	
Max. PV Inverter Input Current	800 A
Max. Diesel Generator Input Current	800 A
Max. Backup Load Port Current	800 A
Recommended Max. Backup Load Power*	350 kW (70% of Rated Output Power)
General	
Cycle Life	⩾ 8,000 cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol system(pack level and container level), water spray system
Ingress Rating	IP55
Cooling	Liquid cooling+Forced air cooling
Operating Temperature	-25°C ~55°C (Derating after 45°C)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Noise	⩽ 80 dB
Altitude	3000m (Derating above 2000m)
Dimensions (W*D*H)	2991*2438*2896 mm
Weight	14 t
Certification	UN3536,IEC62477-1,IEC62619,IEC63056,UL9540A

Note: The value indicated herein is a recommended reference based on PF=0.7. When the load involves motors or other types of impact loads, it is recommended to equip the system with a soft starter. Please contact FENGRUI for further technical support prior to order placement.