

22.5MWh-3.75MW with 33kV transformer

Lingtech Liquid Cooled Energy Storage System



OPTIMAL COST

- Intelligent Lingtech liquid-cooled temperature control system to optimize the auxiliary power consumption
- Pre-assembled, no battery module handling on site, transportation of complete system



EFFICIENT AND FLEXIBLE

- High-efficiency heat dissipation, increase battery life and system discharge capacity
- Front single-door-open design, supporting back to back layout drawing
- Function test in factory, limited on-site work, accelerate commissioning process



SAFETY AND RELIABLE

- Electrical safety management, overcurrent fast breaking and arc extinguishing protection
- The electrical cabinet and battery cabinet are separated to prevent thermal runaway



CONVENIENT O&M

- One-click system upgrade
- Automatic coolant refilling design
- Online intelligent monitoring Remote maintenance

Technical Data	LT 22.5MWh-3.7.5MW
DC side	
Cell type	LFP 3.2 V / 314 Ah C-rate:0.5C
Battery configuration	416S *54P
Nominal capacity	22572kWh (22.5MWh)
Nominal voltage range	1123.2 V - 1497.6 V
AC side	
Nominal AC power	3.75MW
AC current distortion rate	< 3 % (Nominal Power)
DC component	< 0.5 %
Nominal AC voltage	400V-690 V
AC voltage range	621 V - 759 V
Termination (LV)	3 Phase
Power factor	> 0.99 (Nominal Power)
Adjustable range of reactive power	- 100 % - 100 %
Nominal frequency	50 /60Hz
Isolation method	with 33KV step up Transformer
System parameter	
Dimension (W * H * D)	6058 mm * 2896 mm * 2438 mm
Weight	4 pieces of 42000 kg for 5MWh+21000kg for 2.5MWh+13000kg for PCS & MV station
Degree of protection	IP55
Anti-corrosion Degree	C3
Operation Ambient Temperature Range	- 30 °C - 50 °C (> 45 °C Derating)
Operation humidity range	0 % - 100 % (Non-condensing)
Maximum Operation Altitude	4000 m
Temperature Control Method	Intelligent Liquid Cooling
Fire suppression system	FACP, FK5112, Flammable gas detector, Smoke detector, Heat detector, Sounder beacon, Alarm bell, Warning sign, Extinguishant abort button, Ventilation system, Pressure relief port, Manual automatic switching and emergency starting device(Default) Sprinkler, Vent panel, Aerosol (Optional)
Communication	Ethernet/Modbus TCP,IEC104
IEC61000, IEC62619, IEC62933,UN38.3,CE,IEC62477	