

LithoDyne

Li 125/261



The LithoDyne Li 125/261 is an integrated lithium-ion liquid-cooled energy storage system that leverages advanced intelligent thermal management, multi-tier integrated safety protection, and an all-in-one architecture, widely applicable for commercial and industrial peak-valley arbitrage, renewable energy consumption, and solar-storage-EV charging stations.

Core Features

1. High-Energy-Density C&I ESS

High-capacity Lithium Iron Phosphate (LFP) battery cells paired with intelligent thermal management to maintain optimal operating temperatures, effectively mitigating cell degradation and maximizing overall lifecycle service.

2. Multi-Tier Integrated Safety Protection

Full-coverage smoke and temperature sensory monitoring + aerosol fire suppression devices provide precise early warning and rapid containment of thermal runaway risks.

3. Multi-Scenario Adaptability

Versatile operational capabilities supporting peak shaving and valley filling, distributed renewable energy consumption, solar-storage-EV charging hubs, and diverse commercial and industrial application profiles.

4. Efficient Integrated Deployment

All-in-one structural architecture maximizes spatial efficiency and minimizes physical footprint, significantly streamlining on-site installation and O&M while offering flexible capacity configuration.

Technical Specifications

Item		Specifications
AC input/output	Rated Power	125kW
	Rated Voltage	400V
	Rated Frequency	50/60Hz
	Power Factor	> 0.99
Battery Parameters	Battery Type	Lithium-ion battery, 314Ah, 3.2V
	Rated Capacity	261kWh
	Maximum DC Current	172A
	Rated DC Voltage	832V
	Rated Voltage Range	728V~936V
	Battery Module	166.4V/52.249kWh
	System Configuration	1P260S
General Data	Cycle Life	> 6000 cycles (0.5C/0.5C, 90% DOD, 80% SOH)
	Operating Temperature	0°C ~ 55°C (Charging) -20°C~ 55°C (Discharging) Power derating above 45°C
	Storage Temperature	-10°C~50°C
	Relative Humidity	5%~95% (Non-condensing)
	Cooling Method	Liquid-Cooling
	Fire Extinguishing Media	Aerosol
	Altitude	≤2000m
	IP Rating	IP55
	Corrosion Resistance Class	C4
	Installation Site	Outdoor
	Noise Emission	≤75dB
	Dimensions (D*W*H)	1450*1400*2340mm
	Weight	2750kg
	Communication Protocol	Modbus TCP
	User interface	Modbus TCP/IP, IEC 61850, IEC 104, CAN
	Remote Monitoring	Wi-Fi and Ethernet
	BMS	Integration
	EMS	Local integration
	PCS	Integration, AS4777 Compliant Grid-tie Inverter
	Max ESS Units in Parallel	On Grid up to 20; Off Grid up to 6
	Compliance Standards	UN38.3, UN3480, IEC61000, IEC62619, IEC63056, IEC62477, IEC60529, IEC60730