

Stars CL261 Cabinet ESS



Small Size, Big Power.

*Upgrade to Pro for optional MPPT, STS, and EV charging

High Efficiency
Ultra-Safe
Plug & Play
Smart Integration

Ideal for

- Commercial Peak Shaving
- Virtual Power Plant (VPP) Integration
- Critical Backup Power
- Three-Phase Load Balancing



Why Choose Stars CL261?

High Efficiency & Savings

- 261 kWh capacity, 90% RTE efficiency
- 125 kW fast response charge/discharge
- Wide DC voltage range: 728~936 V

Durable & Modular

- Plug & play — no civil works
- 8,000+ cycles for long life
- Reliable in extreme temps (-35°C to 55°C)

Safety & Reliability

- IP55-rated enclosure with liquid cooling
- Automatic electrolyte refilling
- Multi-layer safety: thermal runaway, fire protection, aerosol suppression, real-time alerts

Smart Integration

- All-in-one system with battery, BMS, AC-DC converter, thermal & fire protection
- Supports Modbus, IEC104, MQTT for easy integration



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Product Parameters

Category	Parameter	Specification
System Parameters	Rated Energy	261kWh
	Maximum Energy Efficiency	≥90%
	Operating Temperature	-35°C ~ 55°C (Derated above 45°C)
	Operating Humidity	0%~95% RH (non-condensing)
	Depth of Discharge (DOD)	100%
	Auxiliary Power Supply	Self-powered/External-powered
	Noise Level	≤75dB
	Maximum Cycle Life	≥8000
	Maximum Operating Altitude	4000m (Derated above 2000m)
	Thermal Management	Intelligent Liquid Cooling (with Automatic Refill)
	Safety Features	Pack/Module Aerosol + Module Water Mist + Top Vent + Active Alert
	Protection Rating	IP55
	Communication Interface	LAN/RS485
	Communication Protocol	Modbus/IEC104/MQTT
	Wiring Method	Three-phase four-wire
Connection Type	On-Grid /Off Grid	
Standards & Certifications	UN38.3, IEC/EN 62619, IEC/EN 63056, IEC 60730-1, IEC 62477, IEC62933-5-2, IEC 60529, IEC 61000-6-2, IEC 61000-6-4, New Battery Regulation 2023/1542	
AC Parameters	Rated Charge/Discharge Power	125kW
	Rated Voltage	400V (-15%~+15%)
	Rated Grid Frequency	50Hz
	Power Factor	-1~1
DC Parameters	Cell Type	LFP 3.2V/314Ah
	DC Voltage Operating Range	728~936V
	DC Protection	Contactora + FUSE
Mechanical Parameters	Cabinet Dimensions (W×D×H)	1015*1350*2270mm
	Weight	≤2500kg
	Installation Method	Floor-mounted