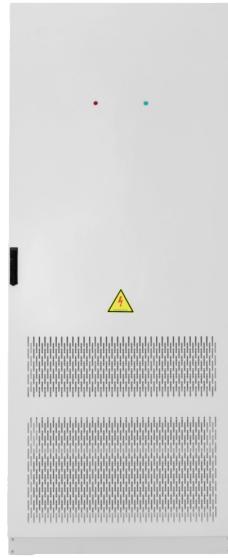


## C&I ALL-IN-ONE CABINET



### Applications:

This C&I All-In-One Cabinet (available in 2h, 4h, & 8h configurations) is a compact, outdoor liquid-cooled energy storage system engineered for safety, efficiency, and flexible deployment. It features long-life LFP cells (up to 8,000 cycles), AI-enhanced liquid cooling to reduce auxiliary power consumption, and a fully integrated, modular design for fast installation across a range of energy storage applications.

### Features:

- Designed for Scalability:** Modular construction streamlines transport, installation, and maintenance, reducing construction time by up to 40%. Integrated control and monitoring systems enable efficient energy management, real-time data collection, and remote oversight.
- Liquid Cooling System:** Equipped with an intelligent temperature control liquid cooling system and AI bionic thermal balance technology, the temperature difference between battery cells is  $\leq 3^\circ$ .
- Adaptable Enclosure:** Designed for harsh outdoor conditions with IP55 protection, C5 corrosion resistance, and resistance to shock, temperature, and moisture. Suitable for generation, grid, and consumption-side energy storage.
- Advanced DC Arc Protection Technology:** High-precision sensing and dynamic arc detection algorithms reduce DC arc risks and enhance system safety.

### Lead Time:

Approximately **12-24 months** after drawings approved.

# C&I ALL-IN-ONE CABINET

Battery Input Parameters	
Cell Type	LFP(LiFePO)
Battery Module Rated Energy (kWh)	52.25
Battery Module Configuration	1P52S
Number of Battery Modules	5
System Available Energy (kWh)	261.248
Rated Voltage (V)	832
Operating Voltage Range (V)	676-936
Maximum Charge/Discharge Current (A)	198.5
Depth of Discharge	90%~100% (90% Recommend)
Grid-Connected Output Parameters	
Rated Output Power (kW)	125
Maximum Grid-Connected Output (kVA)	137.5
Maximum Apparent Power (kVA)	137.5
Rated Output Voltage (V)	400, 3L/N/PE
Output Voltage Range (V)	340-440
Grid Frequency (Hz)	60
Maximum grid-tied output current (A)	198.5
Maximum input current (A)	198.5
Power Factor	-1~1
Total Current Waveform Distortion	<3%
Grid-Connected Output Parameters	
Maximum PCS Efficiency	125
System Efficiency	137.5
Basic Parameters	
Operating Temperature Range (°C)	-25~55
Relative Humidity	10%~95%
Maximum Operating Altitude (m)	4000(>2000 derating)
Cooling Method	Module: Liquid Cooling/ PCS: Smart Fan Cooling
Interactive	LED, WLAN+APP
Methods of Communication	WiFi/4G/LAN/Bluetooth
Communication Protocols	Modbus RTU ,ModbusTCP
Weight (kg)	2580
Dimensions (W×H×D mm)	1050×2250×1400
Topology	Non-isolated
Ingress Protection	IP55 (battery compartment)
Fire Protection System	Aerosol, Water
Noise Emission (dB)	≤75
Charge/Discharge Switching Time (ms)	<50
Certification	
PCS	IEC 62477,AS/NZS 4777.2
System	IEC 62477, IEC62040, IEC 62619, IEC 60730, UV EMC , EN 303645 ,EN 18031, PSTI, AS/NZS 4777.2
EMC	IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3, IEC 61000-6-4
Other	UL9540A

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