

Liquid Cooling PV & ESS All-in-One System

P125G261A

The P125G261A liquid-cooled energy storage system is a highly integrated solution combining LFP batteries, a composite power control unit (BMS, PCS, EMS), a fire suppression system, a thermal management system, and a cloud-based monitoring system.

Featuring an innovative integrated design, this system delivers superior safety standards, simplified management, and maximized profits. It is designed to flexibly meet diverse energy demands, providing a low-carbon, high-yield solution for various C&I application scenarios.

High Integration & Multi-Scenario Adaptability

- Features a highly integrated design for seamless compatibility with PV, grid, and diesel genset, supporting diverse application scenarios.
- Integrates all core components in one system: battery modules, PCS, STS, BMS, EMS, fire suppression system, and intelligent liquid cooling system.

Intelligent Energy Management & Efficiency Optimization

- Enables advanced energy management, supporting functions such as demand control and anti-backfeed
- Provides dynamic reactive power compensation (DRPC) for immediate power factor optimization, enhancing energy utilization efficiency.

Comprehensive Safety Protection

- Incorporates critical safety features, including black-start capability and robust protection against overcurrent and power backflow.
- Equipped with seamless grid-bypass functionality to directly supply utility power to the backup port, ensuring continuous operation.

High-Yield & Low-Carbon Solution

- Delivers superior safety standards, simplified management, and maximized profits through its innovative integrated design.
- Offers a low-carbon, high-yield solution tailored for various commercial and industrial (C&I) application scenarios.

About Ecosolex

As a sub-brand of Shenzhen Topband Co., Ltd., Ecosolex delivers advanced solar, storage, and charging solutions for residential, commercial, and industrial use. Backed by Topband's decades of expertise, over 2,000 research professionals, and more than 3,600 patents, we provide reliable, safe, and sustainable energy systems. With 13 global production and R&D bases, Ecosolex empowers customers worldwide to achieve energy independence and contribute to a greener, more sustainable future.

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P125G261A

Model	P125G261A	
System	Nominal Capacity	314 Ah
	Nominal Energy	261 kWh
	Usable Energy	≥ 243 kWh
	Rated Output Power	125 kW
	Ingress Protection	IP54
	Operating Temperature	-20°C ~ 55°C
	Cooling Method	Liquid Cooling
	Fire Suppression	Aerosol
	Altitude	4000 m (>2000 m Derating)
	Cycle Life	≈ 8000 Cycles
	Dimensions (W × D × H)	1400 × 1350 × 2250 mm
	Weight	≈ 2100 kg
	Certifications	IEC 62619 / CE / UN38.3
Output AC (Grid side)	Rated Output Power	125 kW
	Max. apparent Output Power	125 kVA
	Rated Grid Voltage	3/N/PE, 220V/380 V 3/N/PE, 230V/400 V
	Rated Grid Frequency	50Hz/60Hz
	Rated Grid Output Current	189.9A/180.4A
	Power Factor	-0.99 ~ +0.99
	THDi	<3%
Output AC (Back-up)	Rated Output Power	125kW
	Max. apparent Output Power	1.2 times of rated power, 10 mins
		1.4 times of rated power, 100s
		1.6 times of rated power, 10s
		2 times of rated power, 200ms
	Back-up Witch Time	<10ms
	Rated Output Voltage	3/N/PE, 220V/380 V 3/N/PE, 230V/400 V
PV Side	Rated Frequency	50 Hz/60 Hz
	THDv(@linear load)	<2%
	Max. PV Input Power	250 kW
	MPPT Voltage Range	150 V – 950 V
	Max. DC Input Current	10 × 42 A
Liquid Cooling System	No. of MPPTs / Max. Strings	10 / 20
	Cooling Capacity	5 kW
	Rated Circulating Flow Rate	46.5 L/min @ 60 kPa
	Refrigerant	R134a
	Coolant Type	50% Ethylene Glycol Solution

*Product design and technical specifications are preliminary and subject to change. The brand reserves all rights of final interpretation.
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