FCPower

125KW/261KWH **COMMERCIAL & INDUSTRIAL ESS**

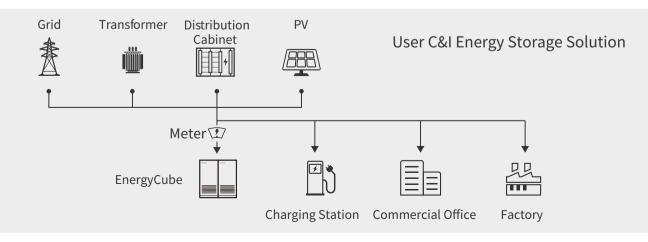
Energy Cube Liquid-Cooling



POWERFUL ENERGY FULLY EVOLVED



The liquid-cooled Energy Cube utilizes an independent liquid cooling system, achieving higher energy density and cooling capacity within a compact design. It offers high efficiency, low noise, safety, reliability, and easy scalability. When integrated with PCS (Power Conversion Systems), it can regulate grid voltage, correct three-phase imbalance, and manage harmonics, enhancing power quality. With a footprint of only 1.3m², its modular design and high protection level make it adaptable to various applications, serving as a backup power source to help businesses reduce energy costs and increase the use of green energy.



Ultimate Temperature Control **Dynamic Liquid Cooling**





Features liquid cooling design with low noise operation at ≤75dB.



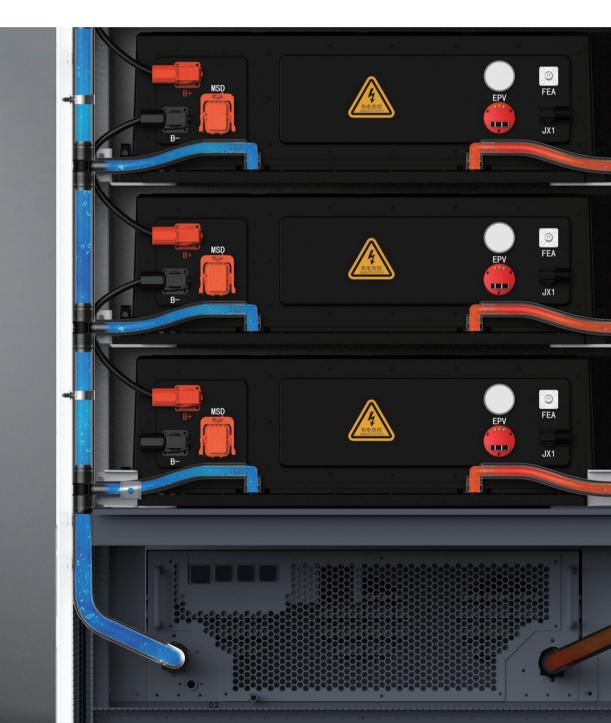
Partitioned system isolation with active safety monitoring and PACK-level immersion fire protection technology.



24/7 real-time monitoring with multiple operation control modes.

Modular Design

Modular structure for easy installation and commissioning, allowing flexible expansion as needed.



EMS Energy Storage Cloud

Multiple Strategy Modes Maximizing Economic Returns

	收益信息	近7天▼ 🕄
EMS储能云	 ● 昨日收益 749.19元 ● 今日收益 1,200 1,000 800 	≗724.05 _元
2.40 мwh 125.80 мwh 105.95 мwh 8.29 万元 菜机容量 总充电量 总放电量 累计收益	600 400 200	
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	站点排名	最好排名 ▼
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▶ 总览 《 设备 电 茴	03. 》 舜阳3	19211.18

Cloud Control

The system dynamically monitors and assesses the local device data, allocates power outputs for various energy storage devices, coordinates power among multiple devices, optimizes operational modes, ensuring the highest system utilization efficiency and maxi mum returns.

Security Monitoring

24/7 Cloud-Based Real-Time Monitor ing, Analyzing Battery Pack Consistency and Safety, Advanced Algorithms Predict Potential Risks, Real-Time Warnings, Ensuring Battery and Equipment Safety, Rapid Dispatch and Repair in Case of System Failures.

Increase Earnings

Real-time monitoring of device operation status, peak and off-peak power consumption, load power, and energy storage revenue through the system. Achieve remote control of devices and online system updates, optimize device operation strategies, offer peak shaving, demand control, emergency control, load tracking, and various other strategies to enhance overall economic benefits.



Application Scenario

Savings on Electricity Costs through Peak-Off-Peak Price Differentials

During periods of low electricity prices, use the grid to charge the devices. During periods of high electricity prices, discharge the batteries to power the load.

Used as a Backup Power Source during Power Outages

It can serve as a backup power source during power outages, providing power to critical facilities to ensure uninterrupted business operations.

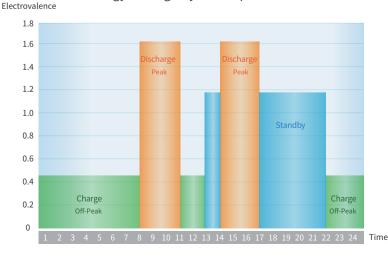
Providing Power Compensation

Providing Power Compensation Function to Ensure Stable Power Supply for Businesses and Ensure Safe Equipment Operation.

PV and Energy Storage Integration Building an Independent Grid

Storing excess electricity generated by the photovoltaic system using the Energy Cube and converting it for later use.





Energy Storage System Operation Mode

22:00-8:00

Charging during off-peak electricity price periods 8:00-11:00 14:00-17:00

Discharging during peak electricity price periods

During device charging, the system automatically monitors the current electrical load and PV generation under the transformer, and adjusts the charging power of the system based on real-time load conditions. This control ensures that the total power consumption remains below the transformer capacity, preventing overload.

Product Appearance



Distribution System

Product Parameter

DC Side Parameters			
Battery Type	LFP	Operating Voltage Range	650V~949V
Configuration	1P260S	Cooling Method	Liquid cooling
Rated Capacity	314Ah	Coolant	Ethylene glycol solution (50% v
Rated Energy	261kWh	Cycle Life	8000 cycles
Rated Voltage	832V	Fire Protection System	Perfluorohexanone + Aerosol + Water fire suppression
Rated Power	125kW	Detector Type	Temperature, smoke, CC
Rated Charge/Discharge C-rate	0.5P		
AC Side Parameters			
Rated AC Power		125kW	
AC Overload Capability	137.5kW		
Wiring Method	Three-phase, four-wire		
Allowed Grid Voltage	380V/400V (-15%∼+15%)		
Allowed Grid Frequency	50Hz/60Hz±2.5Hz		
Total Harmonic Distortion (THD)	≤ 3% (at full load)		
Power Factor	-0.99/-1~1		
DC Component in Current	≤0.5%		
Charge/Discharge Conversion Time	e <100ms		
Maximum Conversion Efficiency		≥98%	
System Parameters			
Operating Environment	-20°C to 50°C (de-rated operation above 45°C)		
Noise Level	≤75dB		
Dimensions (WDH mm)	1000*1300*2500		
Weight	~2.6 tons		
Water Resistance Rating	Battery compartment: IP65, Electrical compartment: IP54		
Allowed Relative Humidity	0-95% (non-condensing)		
Maximum Altitude	≤ 2000m (de-rating above 2000m)		
Communication Interface	CAN, Ethernet		
Communication Protocol	ModbusTCP/RTU		
System Operation Mode	Peak shaving, demand control, reactive power adjustment, grid scheduling interface,Remote dispatch, local data storage, anti-backflow featur		
Certification Standards	GB/T36276-2018		