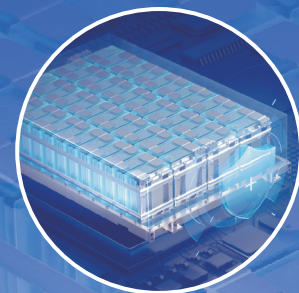


Ultimate Safety System



Self-Developed Ultra 588Ah Cells

- High-Safety Platform: Gel-Based Flame-Retardant Electrolyte
· Honeycomb Carbon Cooling · Nano Shield
- High-Efficiency Ion Sponge Platform: Up to 97.5% efficiency across 5°C–45°C
- Long-Cycle Platform: 10,000+ cycles at 0.5P (25°C), with High-Temp Performance 4,500+ cycles at 45°C



High-Safety Liquid-Cooled PACK

- Invention patent: Patented battery pack thermal runaway protection system (Patent No.: 202210215093.4)
- High-Temperature Resistant: High-temperature-resistant metal outer shell and top cover
- High Safety: Modular safety design effectively avoids accidental short circuits during transportation and installation
- Protection Class is IP65
- International Certifications: Certified by UL9540A, UL1973, IEC62619, IEC61000 and UN38.3



6-tier Protection System

- AI intelligent fire early warning
- Aerogel thermal insulation separator
- Whole-cabinet aerosol protection
- All-in-one detector fire protection
- Water immersion sensor fire protection
- Audible and visual alarm

GREAT POWER

25 Years in Electrochemical Storage, Including 15 Years in Energy Storage

Founded in 2001 and listed in 2015, Great Power is recognized as a national high-tech enterprise, a global Tier 1 energy storage manufacturer recognized by BNEF, and one of the Global New Energy Top 500 companies. As of the end of 2025, Great Power operates 12 manufacturing bases and 10 overseas offices worldwide.

Entering the energy storage sector in 2011, Great Power is among the earliest pioneers in China's energy storage industry. Its solutions cover a wide range of applications, including utility-scale, C&I, residential, portable, telecom base station, and integrated PV-storage-charging systems. In 2025, its residential energy storage batteries ranked No. 2 globally (ICC/SPiR), while its C&I energy storage system shipments ranked No. 2 among Chinese companies (GGII/CNESA).

Great Power has deployed projects in over 50 countries and regions, maintaining a zero-accident safety record with stable and efficient long-term operation. The company is committed to delivering safe and reliable energy storage solutions, making clean energy safer, more stable, and more accessible.



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Official Website



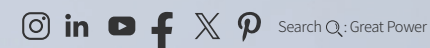
Official WeChat Account



Great Power ESS WeChat Account



Great Power Consumer Battery WeChat Account



Search Q: Great Power

DC OUTDOOR ENERGY STORAGE SYSTEM

MAX-20HC-6250





High Safety

- Self-developed Ultra 588Ah LFP cells
- Integrated liquid-cooling design with five-layer fire protection system



High Protection

- Battery pack: IP55
- High-voltage box: IP67
- Electrical compartment: IP54
- System level: IPX5



High Efficiency

- Cell efficiency $\geq 96\%$, reducing energy loss
- Liquid-cooled system ensures $\leq 2^{\circ}\text{C}$ battery pack temperature difference, improved overall system efficiency



Long Lifespan

- Ultra 588Ah cells with 10,000+ cycles, designed lifespan up to 25 years
- Intelligent thermal management system extends system durability



Advanced Thermal Management System

- Front-to-top airflow design eliminates heat island effect
- Adaptive intelligent control saves up to 15% energy
- Precise temperature control · Pack $\Delta T < 3^{\circ}\text{C}$ · System $\Delta T < 5^{\circ}\text{C}$
- Low-noise operation $< 70\text{ dB}$
- Wide temperature range -30°C to 55°C



Flexible Configuration

- Grid-forming / grid-following / off-grid compatible
- PCS-integrated string architecture
- Direct cascade with step-up transformer ($\sim 30\%$ footprint)
- Factory pre-commissioned for fast grid connection
- $+2\%$ system efficiency, lower AC/DC losses



High-Performance System

- Standard 20HC Container Design: Sea-freight compliant with pre-installed PACK, cutting transport & on-site installation costs
- User-Friendly Interface: Vertical DC/AC cabling + single RJ45 external communication for hassle-free installation
- Ultra-High Integration: Area energy density exceeding $423\text{kWh}/\text{m}^2$, dual-door design for compact footprint
- Adaptive Thermal Management: Intelligent temperature control + high-efficiency liquid cooling, extending battery life & reducing auxiliary power consumption
- Independent Backup Power: 15-minute low-voltage auxiliary system operation after main power failure
- Auto Humidity Control: Built-in dehumidification system prevents condensation, enhancing system corrosion resistance



DC Outdoor Energy Storage System

Max-20HC-6250



Product Type	Max-20HC-6250
Product Category	20HC DC liquid-cooling container energy storage solution
Rated Energy	6.25 MWh@0.5C
Rated Power	$\leq 1563\text{ kW}\cdot 2$
Rated Output Voltage	1164.8V-1497.6 V
Cell Capacity	588 Ah, 0.5C
Cell Type	LFP
Configuration	8P416S
Max Discharge Current	1174 A@5min
Max Charging Current	1174 A@5min
Charging Temperature	$-30\text{--}50\text{ }^{\circ}\text{C}$
Discharging Temperature	$-35\text{--}60\text{ }^{\circ}\text{C}$
Communication Port	CAN, MODBUS TCP
Cooling Method	Liquid Cooling
Protection Level	IP55
Functional Safety	Class B
Product Weight	48 t
Dimensions	W6058*D2438*H2896 mm (20HC)
Applications	Utility-scale, C&I
Compliance & Certification	    IEC62619 IEC61000 IEC62477 UN38.3

String Architecture Topology

