

GEN 8 Scalable Platform: 10MWh Energy Storage System



Scalable Solution, Greater Flexibility

- **Adaptable & Scalable**
 - ≥ 4 hours adaptability for versatile applications, delivered in modular standard size units
- **Greater Flexibility**
 - Low-tonnage, smaller size transport vehicles and cranes help reduce project costs and minimize land requirements
 - High-tonnage cranes can install multiple units simultaneously, shortening installation and commissioning time by up to 30% compared to 5 MWh systems



High Energy Density, Lower LCOE, Elevated Returns

- **Larger Capacity Platform**
 - 10MWh per unit with 700+Ah cells, delivering higher energy density and extended service life
- **Smaller Footprint**
 - 26% footprint reduction for typical 4-hour systems vs. 5MWh products
- **Reduced Power Use**
 - 12% reduction in auxiliary power consumption
- **Boosted Project Returns**
 - +1% project IRR uplift (Example: 100MW / 4- hour UK project vs. 5MWh baseline)



Advanced Safety, Higher Performance

- **Prevention-First Fire Safety Strategy**
 - Multi-layer protection — from cell to system level — in compliance with the industry's most stringent standards
- **Advanced System Balancing**
 - Precision SoC algorithms with continuous dynamic balancing
- **Intelligent Liquid Cooling**
 - Environment-adaptive liquid cooling design to combat heat island effects. Reducing auxiliary power consumption by 12%



Environmental Adaptability

- **Low-Noise Technology**
 - 60dB(A) @ 1m low noise, optimized aerodynamics and control algorithms minimizes airflow resistance and fan noise, making it ideal for in sound-sensitive areas
- **Wide Operating Temperature Range**
 - Performs reliably from -30°C to 55°C, ensuring full functionality in extreme climates
- **Designed for Harsh Environment**
 - Built to IP55 and C5 anti- corrosion standards to resist salt, humidity, and harsh outdoor environments



EnOS Intelligent Software Ecosystem

- **Real-Time Optimization**
 - EnOS SCADA, EMS, and Hybrid power plant controller (HPPC) for real-time control, predictive maintenance, and revenue optimization
- **Cloud-Enabled Fleet Management**
 - Machine learning-based performance and lifetime optimization



Advanced Analytics for Safety, Performance, and Profitability

- **Model-Based Fault Detection**
 - Early detection of thermal and electrical anomalies to protect your assets
- **Operational Excellence**
 - Predictive maintenance and adaptive system learning reduce downtime and maintenance costs
- **Revenue Maximization**
 - Accurate SoC / SoE estimation and optimized dispatch improve financial performance

Battery Data

Cell Type	LFP 700+Ah
Nominal Capacity	10MWh
Nominal Voltage	1331.2V
Rated Discharge / Charge Rate	≤ 0.25P

General Data

Dimensions of Full Container (L x W x H)	9225 x 2438 x 3256mm
Max. Weight	< 80 Tons (30 feet)
Weight of Each DC module	< 29 Tons (10 feet)
IP Rating	IP55 (Pack IP67)
Corrosion-proof Grade	C4H (C5H optional)
Operating Temperature Range	-30°C ~ 55°C (> 45°C de-rating)
Storage Temperature Range	-40°C ~ 60 °C
Operating Humidity Range	0 ~ 100%, non-condensing
Operating Altitude	≤ 4000m (> 2000m de-rating)
Cooling Method	Liquid-cooled
Compliance	UL 9540A, UL 1642, UL 1973, NFPA 69, NFPA 68, NFPA 855, IEC 62933, IEC 62619, IEC 63056, IEC 62477, IEC 61000-6-2, IEC 61000-6-4, UN 38.3, UN 3536, ISO 27001, IEC 62443-2-4, IEC 62443-4-1, IEC 62443-4-2