

Gotion GRID 4608/3421

Liquid Cooling Energy Storage System II



Excellent Security

1st Protection Stage Cell Thermal Runaway

- Real-time monitoring of cell temperature
- Cell thermal runaway is suppressed in the battery module via rapid immersion
- Battery temperature drops below critical temperature (No disintegration of battery diaphragm)

2nd Protection Stage Complete Fire Fighting System

- Battery module immersion fire extinguishing with a protection efficiency of over 90%
- Temperature+Smoke+Gas detection and early warning+Explosion-proof exhaust and ventilation
- Fully submerged Novec1230 extinguishing +fire water sprinkler system

3rd Protection Stage Multiple Anti-leakage Design

- Dry wet separation design: An integrated die-cast structure of the liquid cooling plate and pipeline
- Pipe leakage detection system: Leakage detector+leakage alarm notice
- Intelligent cabinet detector: Battery cabinet leakage detection system BMS System O&M Staff



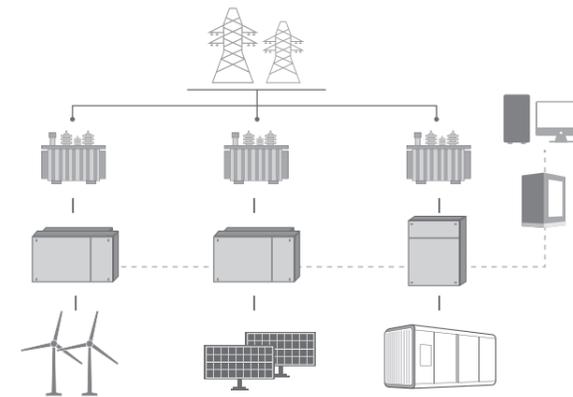
- ✓ High Energy Density
- ✓ Large Capacity
- ✓ Intelligent Temperature Control



- 4608kWh** High Energy
- 12000 cycles** Long Life Span
- 4-Layer Protection** High Safety
- 20ft** Standardization
- 3 °C** Intelligent Temperature Control
- Low LCOS** Scientific Design

ESS Product Solution

- 📦 Capacity Design
- 👤 Pre-sales Service
- 🔧 Install&Commissioning
- 🛡️ Post-sale Support



Gotion Offerings

- Localized Factory
- Equipment Supply
- Construction/Commissioning
- Extended Warranties
- Local After-sales Service
- Financing Service

Gotion High-Tech Co., Ltd.
en.gotion.com.cn
Email:sales@gotion.com

Electrical		
Model	ESD1280-05P4608	ESD1267-05P3421
Cell Type	LFP-300Ah	
Max.Temperature Difference	3°C	
System Configuration	12P400S	9P396S
Nomial Energy (kWh)	4608	3421
Rated Voltage (Vdc)	1280	1267
Voltage Range(Vdc)	1000-1460	990-1445.4
Charge/Discharge Rate	0.5P@25°C	
Max. Charge Power(kW)	2304 (0.5P)	1710.5 (0.5P)
Conditions		
Storage Temperature(°C)	-30~60	
Working Temperature(°C)	-30~50	
Working Relative Humidity(%)	0-95(non-condensing)	
Altitude (m)	< 3000(≥3000 derating)	
Parameters		
Ingress Protection	IP54	
Cooling Mode	Liquid-Cooling	
Communication Interface	CAN, RS485, Ethernet	
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, IEC104	
Fire Suppression	Pack level Temperature/Smoke/ Gas Detector + Water FSS/ Perfluorohexane	
Standards& Certification	UN38.3, UL1973, UL9540A, IEC62477, IEC61000, NFPA855 Compliant	GB/T36276, UL1973, UL9540, UL9540A, UN38.3, UN3536, IEC62477, IEC60730, IEC61000, IEC62619, NFPA855 Compliant
Dimensions (W * D * H)mm	20ft Container 6058 x 2438 x 2896	
Weight (T)	≈43	≈37

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Exceptional Safety

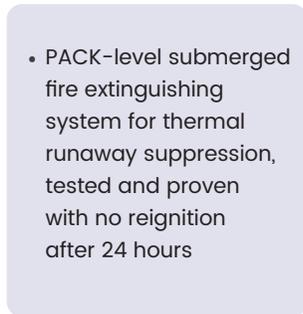
Protection Design

- Dry/wet separation design by an integrated die-casting structure of the liquid cooling plate and pipeline



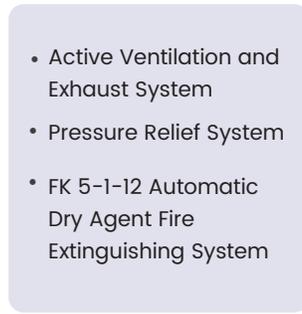
1st Level Protection

- Continuous cell level temperature monitoring from BMS
- Abnormal Cell Temperature Rise Alarm



2nd Level Protection

- Thermal, Smoke, Combustible Gas Detection and Alarm
- Liquid Leakage Detection



3rd Level Protection

- Prefabricated Water Sprinkler System (optional)
- External Fire Hose Connection Port

