

# Gotion GRID 5015

## Liquid-Cooled Energy Storage System III



**5015kWh**  
High Energy

**12,000 Cycles**  
Long Life Span

**3-Layer Protection**  
High Safety

**20ft**  
Standard Container

**3°C**  
Intelligent Temperature Control

**600MWh per acre**  
Optimized Energy Density

- ✓ High-Energy-Density System
- ✓ Optional Battery Container
- ✓ Optimal Space Utilization
- ✓ Integrated BMS
- ✓ Low Cost with Minimal Footprint

### >>> ESS Product Solution



Thermal Energy Storage



Wind and Solar Energy Storage



Shared Energy Storage



Peak-valley Arbitrage

System-5015



\*Rack×12



Pack×48



Cell×4992



314Ah



UN38.3



\*The image illustrates two electrical racks physically mounted together to fit into the container, and one electrical rack comprises four battery packs connected in series.

## Model

ESD1331-05P5015

### Electrical Parameters

Cell Type	LFP-314Ah
Cell Cycle Life	> 12,000*
Rated Voltage of Single Cell	3.2Vdc
Pack Configuration	1P104S
Rack Configuration	1P416S
System Configuration	12P416S
System Nominal Energy	5015kWh
System Rated Voltage	1331.2Vdc
System Voltage Range	1040Vdc ~ 1497.6Vdc
Charge / Discharge Rate	≤0.5p @ 25°C/77°F

### Components

High Voltage Box	Integrated
Confluence Cabinet	Integrated
Monitoring System (HMI)	Integrated
Fire Suppression System	<ul style="list-style-type: none"> <li>• Explosion-proof Exhaust and Ventilation System</li> <li>• Temperature/Smoke/Combustible Gas Detection System</li> <li>• <b>PACK-level submerged</b> Fire Extinguishing System</li> <li>• Aerosol Fire Extinguishing System</li> <li>• Prefabricated Water Sprinkler System (Optional)</li> </ul>
Thermal Management System	<ul style="list-style-type: none"> <li>• Integrated Liquid Cooler 60kW Cooling Capacity for Battery</li> <li>• Air-cooling for Other Equipment</li> </ul>
EMS	Not Integrated
BMS	Integrated Option: U.S. Manufactured

### Conditions

Storage Temperature	-30°C ~ 60°C / -22°F ~ 140°F
Working Ambient Temperature	-30°C ~ 45°C / -22°F ~ 113°F (>45°C/113°F Derating)
Working Relative Humidity	0% ~ 95% (Non-condensing)
Working Altitude	≤3000m/9842ft (>3000m/9842ft Derating)

### Other Parameters

Ingress Protection	IP55 (Except Liquid Cooler)
Communication Interface	CAN, RS-485, Ethernet
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, IEC104
Dimensions (W×D×H)	6058mm×2438mm×2896mm/238.5in×96in×114in (20ft Container)
Weight (t)	44
Standards & Certification	UL9540A, UL9540, UL1973, UN38.3, UN3536, NFPA855, NFPA69, RoHS, Reach, (EU) 2023/1542, IEC 62477-1, IEC 60529, IEC 61000-6-2, IEC 61000-6-4, IEC 62933-5-2, IEC 63056, IEC 62619, GB/T 36276

\*70% capacity retention after 12,000 cycles (0.5P charge/discharge, 90% DoD at 25±2°C)  
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