

Galaxy 418L-AIO-2H

215kW/418kWh Liquid-Cooling Storage Cabinet



Features

-  **Liquid Cooling**
-  **Active Balancing**
-  **690 and 800 Vac Output Option**
-  **Easy for Transport**
-  **Easy for Installation**
-  **Super Compact Design**
-  **Cost as Containerized BESS**

Innovated All-In-One BESS



Smart & Reliable Battery Management

- Active Balancing BMS
- Built-in DC-DC for Black Start
- Modular design BMS for easy maintenance

Advanced Thermal & Structural Design

- High-Efficiency Liquid Cooling
- Back-to-Back Layout Support
- Integrated Cabinet Base Eliminating needs for transport pallet
- IP54 Protection

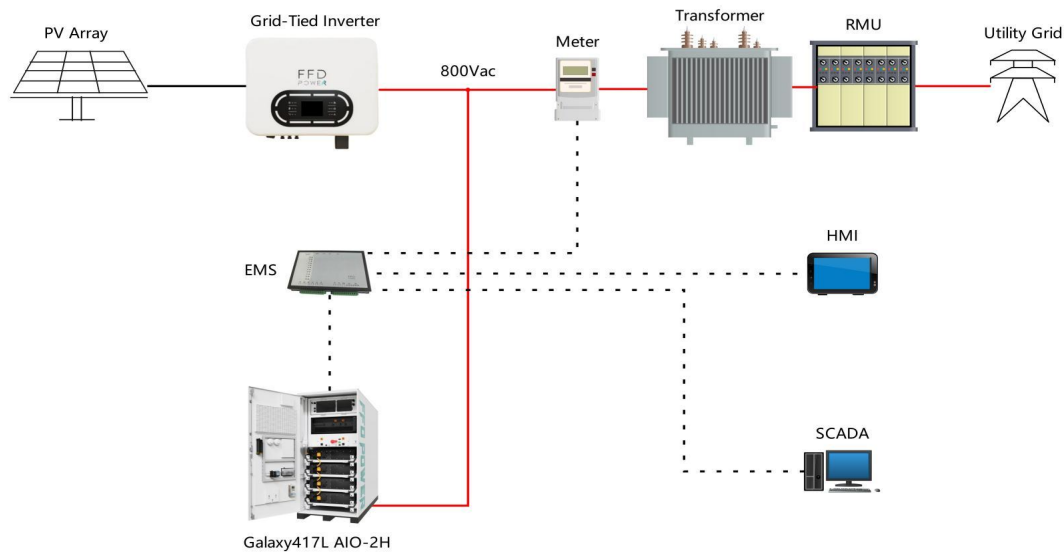
All-in-One System Integration

- Complete EMS by Siemens integrated
- Remote maintenance and updating access integrated
- Plug and play
- Aerosol Fire Suppression integrated

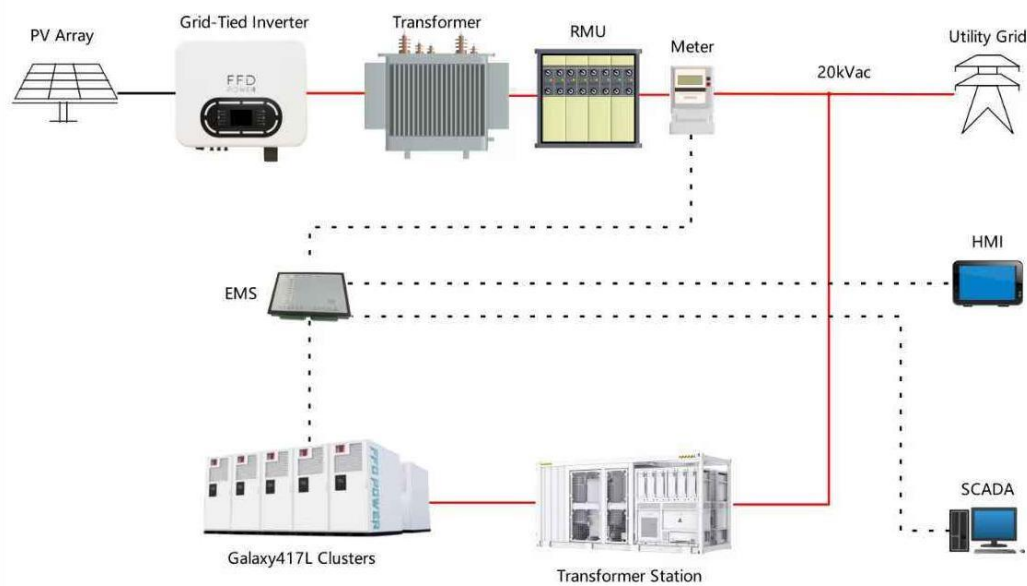
Smart High-Efficiency PCS

- Up to 99% Conversion Efficiency
- Scalable System Architecture Up to 60 MW on-grid and 3 MW off-grid
- Flexible Output Voltage 690 VAC or 800 VAC
- IP 66 protection
- VSG , PQ ,VF function available

Storage Cabinet System Applications



800V AC-Coupled BESS for PV-Bess Co-Location



20KV AC-Coupled BESS for Stand alone or PV-Bess Co-Location

Storage Cabinet Technical Parameters

Galaxy 418L-AIO-2H Battery Parameter	
Cell Type(Ah)	LFP, 314Ah
Battery Configuration	1P104S*4
Battery At DC Side (kWh)	418kWh
System Output Voltage Range (V)	1164.8V~1456V
Dimensions Of Battery Unit (W *H * D) mm	1000*2236*2500
Weight Of Battery Unit (kg)	≈4500kg
Degree Of Protection	IP54
Corrosion Protection Leve	C 3
Relative Humidity	0 ~ 85 % (non-condensing)
Operating Temperature Range	-20°C ~ 60°C (> 45°C derating)
Max. Working Altitude (m)	3000
Cooling Concept Of Battery Cabinet	Smart liquid cooling
Fire Safety Equipment	Combustible gas detection and ventilation systems, aerosol fire suppression

215kW PCS Technical Parameters

215kW PCS Parameter	
Module	EPCS215-AM-F
DC Side	
Maximum Voltage (V)	1000~1500
Maximum Charge And Discharge Current (Adc)	245
AC Side (On-Grid)	
Rated Voltage (V)	690/800 (Optional)
Rated Output Power (kW)	215
Max. Output Power (kVA)	236.5
Rated Input Frequency	50/60Hz
Overload Capacity	110% long term
Maximum Discharge Efficiency	≥98.5%
AC Side (Off-Grid)	
Rated Output Voltage	690/800 (Optional)
Rated Output Frequency	50/60 Hz
Maximum Output Active Power (kW)	215
Maximum Output Apparent Power (kVA)	236.5
General Parameters	
Range Of Working Temperature	-30℃~55℃ (>45℃ frequency reduction)
Degree Of Protection	IP20
Working Altitude	≤4000m (derate for use above 2000)
Cooling Method	Intelligent air cooling
Humidit	0%RH~95%, no condensation
Dimensions (W*D*H)	810*845*275
Weight (Kg)	108
Battery BMS Communication Interface	CAN, RS485
Protection Level	IP20/IP66 (Optional)
Certification	EN 61000-6-2 , EN 62477-1 , EN 50549-1



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FFD POWER leads the way in manufacturing battery energy storage systems. Concurrently, we offer comprehensive turnkey solutions, encompassing both DC and AC coupled systems. Our solutions cover a spectrum of applications, including energy backup, peak shaving, load shifting, transformer enhancement, and energy arbitrage. Services provided span system design, integration, training, installation, and warranty, offering a complete approach to diverse energy storage needs. With offerings ranging from 5 KWh to 100 MWh, our turnkey solutions signify a holistic solution for various energy storage requirements.

