

Galaxy 215-AIO-2H Distributed Energy Storage Cabinet: Outdoor plug & play energy storage system



- ◇ **Peak Shaving and Load Shifting:**
These cabinets can be used to store electricity during periods of low electricity prices and release it during periods of high electricity prices, helping to balance loads and reduce electricity costs.

- ◇ **Preventing Solar Energy Wastage Due to Grid Limits :**

The energy storage cabinet prevents the wastage of excess solar energy caused by limitations in the grid's capacity.

- ◇ **Emergency Power Supply :**

This backup power source is designed to address unforeseen events and ensure uninterrupted power supply, preserving the functioning of critical equipment and services in both industrial and domestic settings.

- ◇ **Transformers Not Enough :**

The energy storage cabinet, by storing electrical energy and reducing peak loads, can help alleviate transformer overloading issues, prolonging its lifespan and avoiding the high time and economic costs associated with transformer upgrades or replacements.



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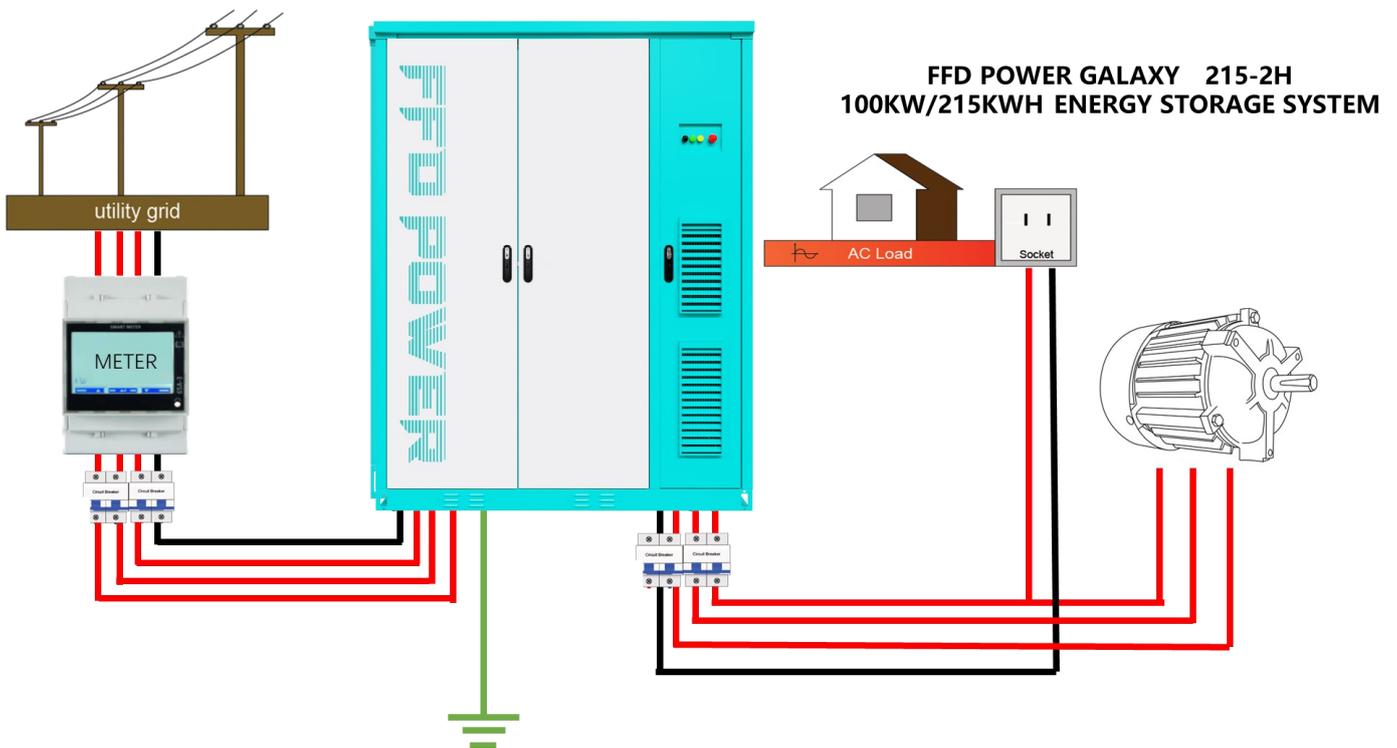
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Galaxy 215-AIO-2H Distributed Energy Storage Cabinet: An Efficient Energy Storage Solution

The Galaxy 215-AIO-2H Distributed Energy Storage Cabinet, a rugged outdoor unit comprising 15 SOLE 15000 modules, each with a 14.33 kWh capacity.

With a weather-resistant IP54 rating, it excels in harsh conditions. Featuring a air-cooling system, this cabinet ensures optimal energy efficiency and unwavering reliability. It is equipped with advanced safety elements such as pack-level aerosol fire suppression, water immersion sensors, lighting, and smoke detectors. Tailored for distributed energy storage, it maximizes the utilization of renewable energy, cuts operational costs, and readily adapts to the ever-changing energy landscape.



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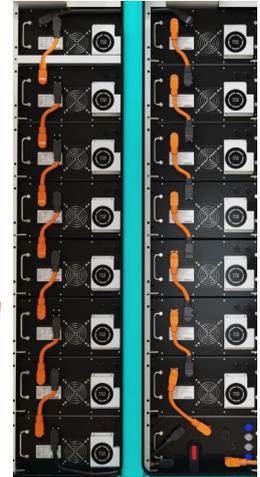
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PACK LEVEL + CABINET LEVEL

AEROSOL FIRE EXTINGUISHING DEVICE



BATTERY CLUSTER



Special cabinet air conditioner, hot and cold air, IP55



EMS



HV BOX



PCS
100KW AC-DC

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Product advantages:

- **BMU, RCU, and EMS Integrated Internally:** BMU, RCU, and EMS are integrated internally for seamless operation.
- **Modular Design, Support for Parallel Expansion:** Modular design allows for parallel expansion of functionality.
- **Multiple Operating Modes for Various Applications:** Supports various operating modes to suit different application scenarios.
- **Multiple Built-in Protection Functions (Lightning, Fire, Theft, etc.):** Multiple protection functions, including lightning protection, fire prevention, and anti-theft features, are built in.
- **Three-Phase 100% Unbalanced Load Capacity:** Capable of handling 100% unbalanced loads in a three-phase system.
- **Perfectly Matches Peak and Off-Peak Electricity Prices with Two Charge and Two Discharge Cycles:** Optimized for taking advantage of peak and off-peak electricity pricing with two charge and two discharge cycles daily.
- **Brand New A-Grade Battery Cells for Longevity (Over 6000 Cycles):** Equipped with brand new A-grade battery cells with a cycle life of over 6000 cycles.

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Galaxy 215-AIO-2H Distributed Energy Storage Cabinet: Parameter

MODEL: Galaxy 215-AIO-2H	
ESS	
Cell type	LFP, 280Ah
System battery configuration	1P16S*15
Battery capacity (BOL) at DC side	215 kWh
System output voltage range	600V~876V
Dimensions of battery unit (W *H * D)*	1900mm*2360mm*1050mm
Weight of battery unit*	≈2750kg
Degree of protection	ESS Cabinet IP55,PCS Cabinet IP44
Corrosion protection level	C 3
Relative humidity	0 ~ 95 % (non-condensing)
Operating temperature range	-30°C ~ 50°C (> 45°C derating)
Max. working altitude	3000 m
Cooling concept of battery Chamber	Smart air cooling
Fire safety equipment	Combustible gas detection and ventilation system, Water-based fire suppression
PCS	
Nominal AC power	100KW
Max.THd of current	<3%
Nominal grid voltage	400 V
Grid voltage range	360 ~ 440 V
Nominal grid frequency	50/60 Hz
Grid frequency range	45~55 Hz, 55~65 Hz

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