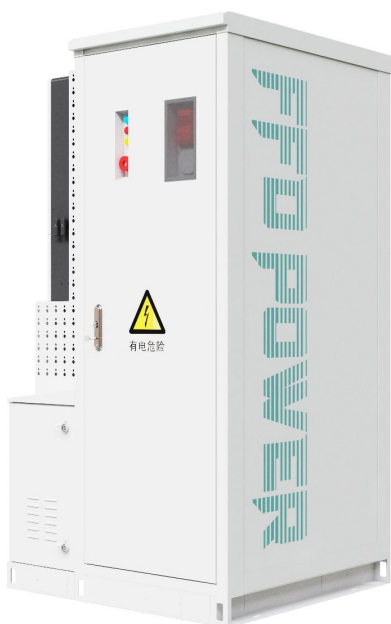


Galaxy 100-AIO-2H

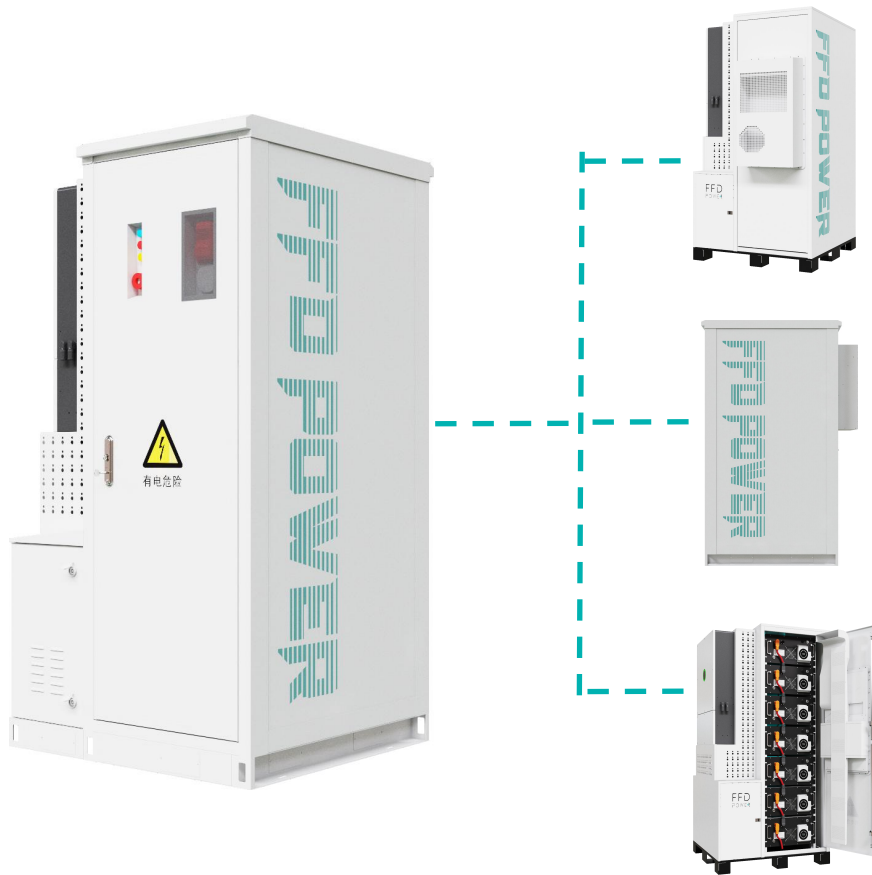
50kW/100kWh Air-Cooling Energy Storage Cabinet



Features

- Air Cooling
- 6 MPPT, Support 200% Oversizing
- Supports UPS-level On- and Off-grid Switching
- Accessing to Diesel Generator
- Easy for Expansion
- Easy for Transport

Innovated All-In-One BESS



Smart & Reliable Battery Management

- Plug and play
- Real-time monitoring
- Remote maintenance and updating access integrated

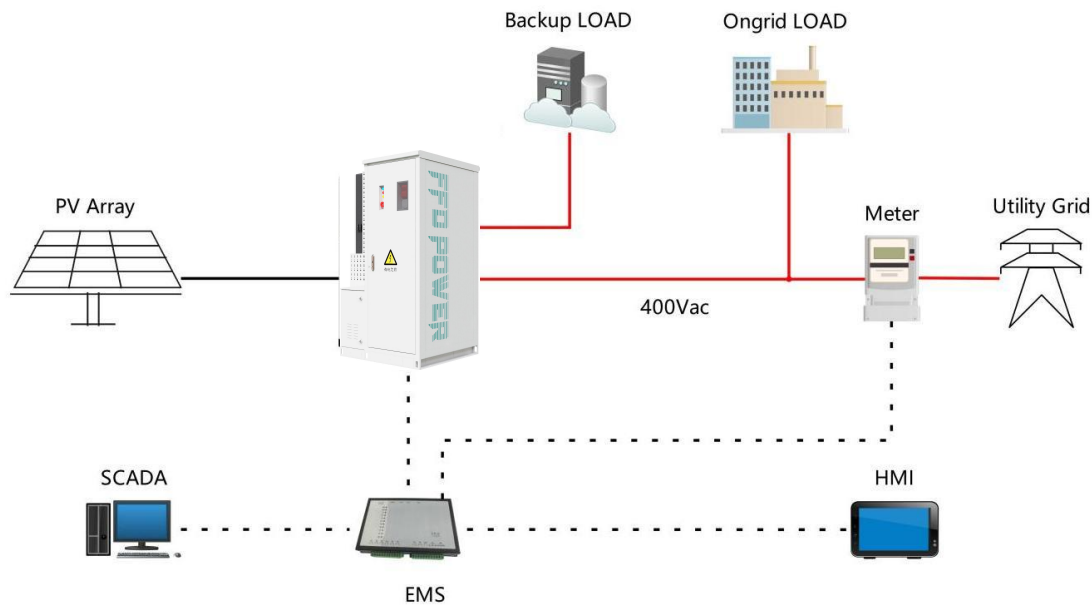
Advanced Thermal & Structural Design

- Air cooling system
- Easy transport, loading, and installation
- Aerosol fire suppression integrated
- IP54 protection

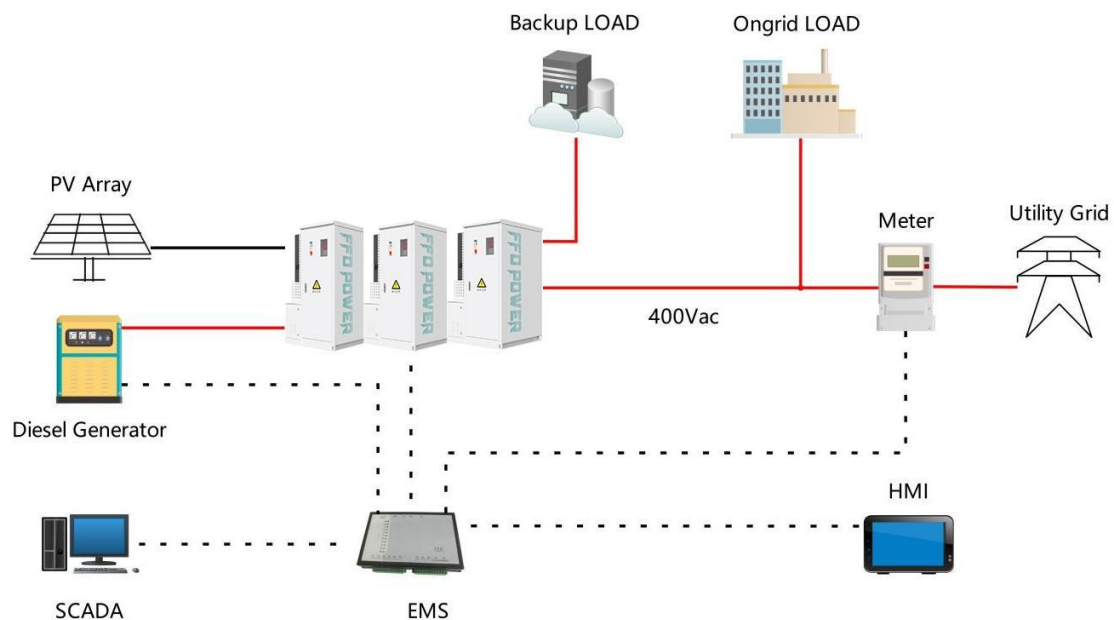
Smart Hybrid Inverter

- Matching high power(210) PV panel
- 6 mppt, support 200% oversizing
- Parallel connection up to 10pcs
- Supports UPS-level on and off-grid switching
- Supports accessing to DG(diesel generator)
- IP 66 protection

Storage Cabinet System Applications



400V BESS Solution for PV Self-Consumption Optimization



Advanced 400V BESS for Microgrid Applications

Battery Cabinet Technical Parameters

Galaxy 100-AIO-2H Battery Parameter	
Cell Type	LFP, 280Ah
System Battery Configuration	1P16S*7
Battery Capacity At DC Side (kWh)	100.352
System Output Voltage Range (V)	316.96~408.8
Dimensions of Battery Unit (W *H * D)	1150*1920*1000mm
Weight Of Battery Unit (Kg)	≈1200
Maximum Charge And Discharge Rate	0.5C
Degree of Protection	IP54
Corrosion Protection Level	C 3
Relative Humidity	0 ~ 85 % (non-condensing)
Operating Temperature Range	-20°C ~ 60°C (> 45°C derating)
Max. Working Altitude (m)	3000 m
Cooling Concept Of Batter Cabinet	Smart Air Cooling
Fire Safety Equipment	Combustible gas detection and ventilation systems, aerosol fire suppression

50kW Hybrid Inverter Parameters

DC Input	
Max. PV Array Power [Wp] @STC	100000
Max. DC Voltage [V]	1000
MPPT Voltage Range [V]	180–850
Rated DC Voltage [V]	600
Start Voltage [V]	200
Max. DC Input Current [A]	6*45
Max. DC Short Circuit Current [A]	6*55
Number of Strings per MPPT	2
AC Output (On-Grid)	
Rated AC Power [W]	50000
Max. Apparent Power [VA]	55000
Rated Output Current [A]@230Vac	72.5
Max. Output Current [A]@220V/230V	79.8
Current Inrush [A]	192
Max. AC Fault Current [A]	182.6
Max. AC Over Current Protection [A]	145
Rated AC Voltage/Range [V]	3+N+PE, 380/400
Rated Output Frequency/Range [Hz]	50 Hz: 45–55; 60 Hz: 55–65
Power Factor [cos φ]	0i–1–0c
Total Harmonic Distortion [THDi]	<3%
AC Input (On-Grid)	
Rated AC Voltage [V]	3+N+PE, 380/400/415
Rated Input Frequency [Hz]	50, 60
Max. Input Current [A]	200
AC Input (Generator)	
Max. Input Power [W]	138000
Max. Input Current [A]@230V	200
Rated Input Voltage [V]	3+N+PE, 380/400
Rated Input Frequency/Range [Hz]	50 Hz: 45–55; 60 Hz: 55–65
AC Output (Back-up)	
Max. Output Power [VA]	55000
Peak Output Apparent Power [VA]	75000, 5s
Rated AC Voltage [V]	3+N+PE, 380/400
Rated Output Frequency/Range [Hz]	50 Hz: 45–55; 60 Hz: 55–65
Output THDu (@ Linear Load)	<3%
Efficiency & Certification	
Max. Efficiency	≥98.0%
Max. Battery to AC Efficiency	96.0%
Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 021, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150, IEC62109-1/-2, NB/T32004-2018

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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.

