

Galaxy 261L+80kW Hybrid Inverter

80kW/261kWh Liquid-Cooling Storage Cabinet

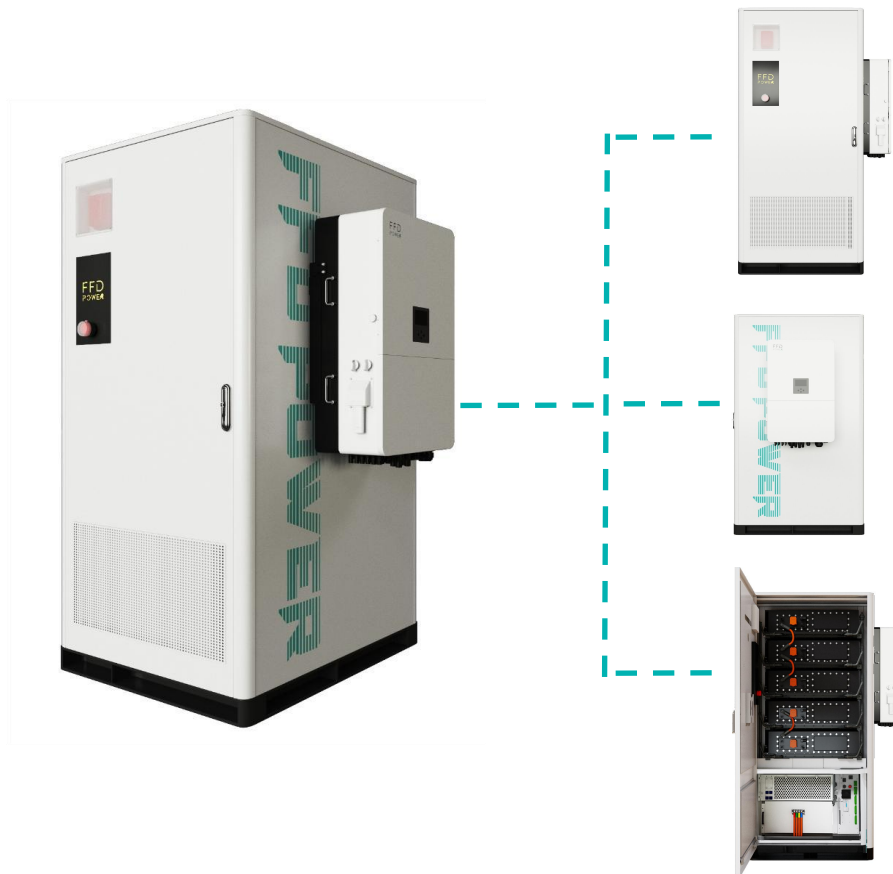


Features

- Liquid cooling
- Active balancing
- Easy to expand
- 100% unbalanced output
- AC couple to retrofit existing solar system
- Support storing energy from diesel generator
- Max. 10 pcs parallel for on-grid and off-grid operation, support multiple batteries parallel



Innovated All-In-One BESS



Smart & Reliable Battery Management

- Active balancing
- Support black start
- Real-time monitoring

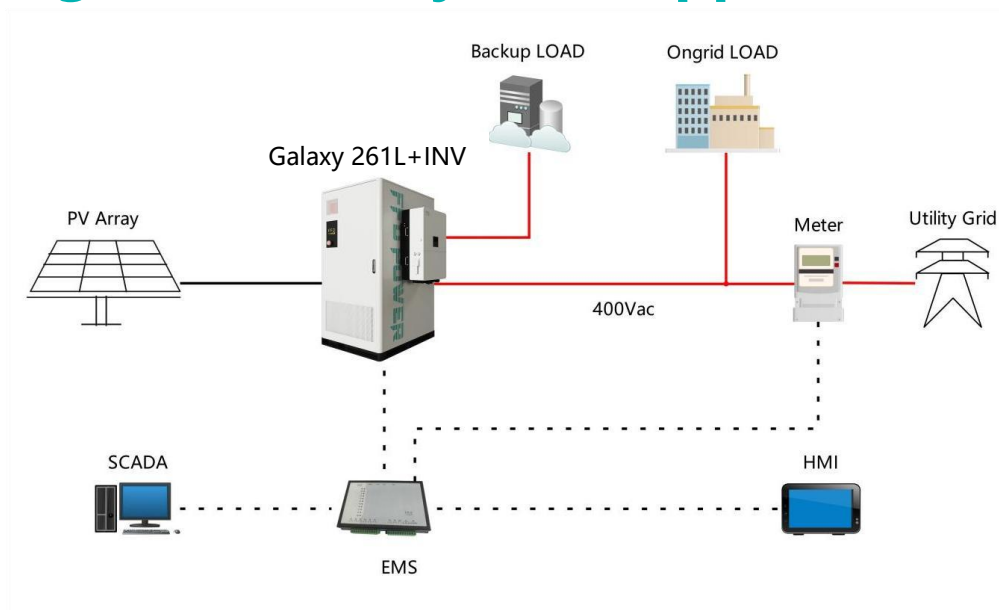
Advanced Thermal & Structural Design

- High-Efficiency liquid cooling system
- Easy transport, loading, and installation
- Aerosol fire suppression integrated
- IP54 protection

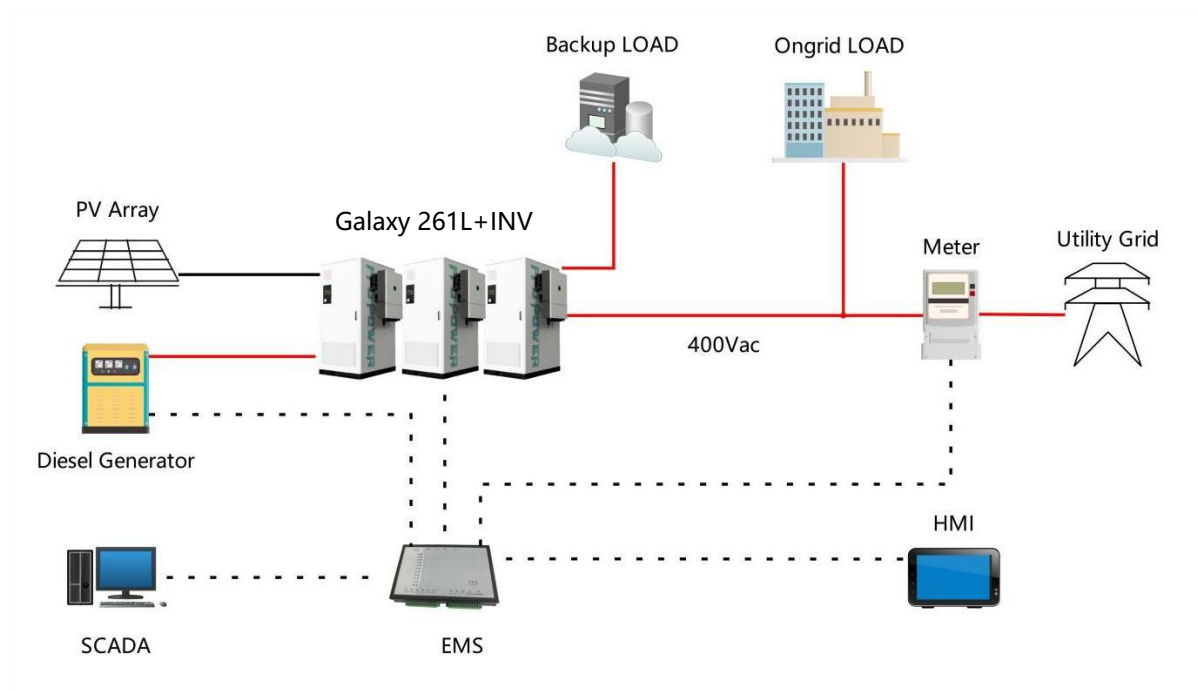
Smart Hybrid Inverter

- 100% unbalanced output
- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation
- Support multiple batteries parallel
- Max. charging/discharging current of 160A
- Support storing energy from diesel generator

Storage Cabinet System Applications



400V BESS Solution for PV Self-Consumption Optimization



Advanced 400V BESS for Microgrid Applications

Battery Cabinet Technical Parameters

Galaxy 261L-AIO-2H Battery Parameter	
Cell Type(Ah)	LFP, 314Ah
Battery Configuration	1P52S*5
Battery At DC Side (kWh)	261 kWh
System Output Voltage Range (V)	728V~910V
Dimensions Of Battery Unit (W *H * D) mm	1150*2230*1335
Weight Of Battery Unit (kg)	≈2850kg
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 m
Cooling Concept Of Battery Cabinet	Smart liquid cooling
Fire Safety Equipment	Combustible gas detection and ventilation systems, aerosol fire suppression

80kW Hybrid Inverter Parameters

Battery Input Data	
Battery Type	Lithium-ion
Battery Voltage Range (V)	160-1000
Max. Charging Current (A)	80+80
Max. Discharging Current (A)	80+80
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	2
PV String Input Data	
Max. PV Access Power (W)	160000
Max. PV Input Power (W)	128000
Max. PV Input Voltage (V)	1000
Start-up Voltage (V)	180
MPPT Voltage Range (V)	150-850
Rated PV Input Voltage (V)	650
Max. Operating PV Input Current (A)	36+36+36+36+36+36
Max. Input Short-Circuit Current (A)	54+54+54+54+54+54
No. of MPP Trackers/ No. of Strings MPP Tracker	6/2+2+2+2+2+2
AC Input/Output Data	
Rated AC Input/Output Active Power (W)	80000
Max. AC Input/Output Apparent Power (VA)	88000
Rated AC Input/Output Current (A)	121.3/115.9
Max. AC Input/Output Current (A)	133.4/127.6
Max. Continuous AC Passthrough (grid to load) (A)	200
Peak Power (off-grid) (W)	1.5 times of rated power, 10s
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65
Grid Connection Form	3L+N+PE
Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0.5% In

80kW Hybrid Inverter Parameters

Efficiency	
Max. Efficiency	98.70%
Euro Efficiency	98.10%
MPPT Efficiency	>99%
Equipment Protection	
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
Communication Interface	RS485/RS232/CAN
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)
General Data	
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	3000m
Noise (dB)	≤65
Ingress Protection(IP) Rating	IP 65
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD mm)	606×927×314 (Excluding Connectors and Brackets)
Weight (kg)	105
Type of Cooling	Intelligent Air Cooling
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2



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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.

