

Galaxy 261L+100kW Hybrid Inverter

100kW/261kWh Liquid-Cooling Storage Cabinet



Features

- Liquid cooling
- Active balancing
- Multiple MPPT inputs
- Supports parallel connection of 3 off-grid units
- Supports 100% three-phase unbalanced load
- UPS functionality & black start capability

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

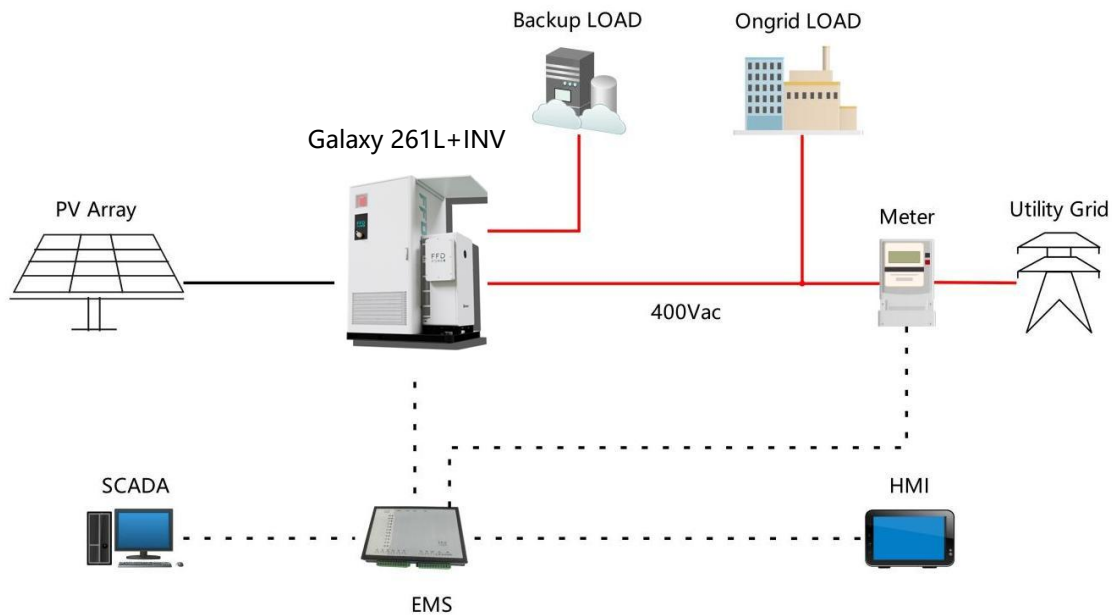
All-in-One System Integration

- Plug and play
- Remote maintenance and updating access integrated
- Supports various applications including PV integration, peak-valley arbitrage, off-grid/on-grid modes

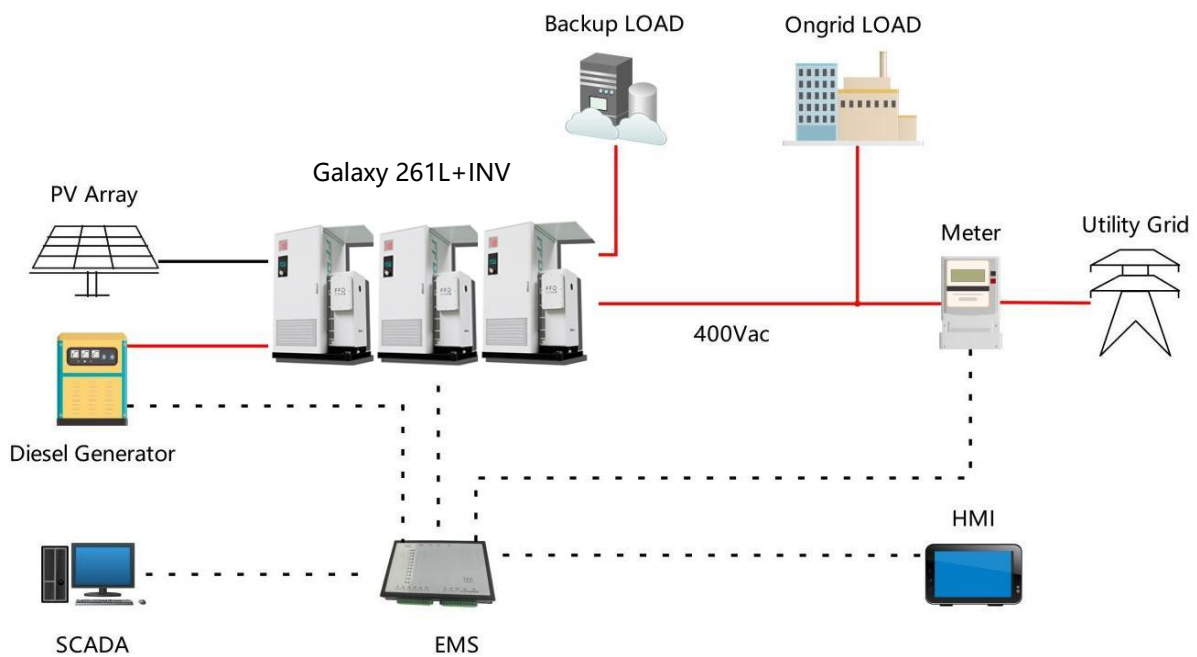
Smart Hybrid Inverter

- Supports up to 10 MPPT trackers
- Supports UPS function
- Supports 100% three-phase unbalanced load
- 110% continuous AC-side overload capability
- 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 261L 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
Certificate	CE/IEC 62619/IEC 63056/UN 38.3/MSDS

100kW Hybrid Inverter Parameters

MODEL	WIT 100K-HU
PV INPUT PARAMETERS	
Max. Input Power (KW)	156KW
Max. Input Voltage (Vdc)	1100V
MPPT Operation Voltage Range (Vdc)	180V-800V
Start-up Voltage	195V
Rated Input Voltage	550V
MPPT Operation Voltage Range at Rated Power (Vdc)	520V~800V
Max. Input Current (Adc)	32A
Max. Short-circuit Current (Adc)	40A
Number od MPPT Channels and Strings	10/2
BATTERY PARAMETERS	
Max Input/Output Power(KW)	113.5KW
Operating Voltage Range (Vdc)	600-1000V (3P3W)/680V-1000V(3P4W)
Rated Battery Voltage	768V
Max. Continuous Current	167A
BMS Communication	RS 485/CAN
GRID-CONNECTED PARAMETERS (AC)	
Rated Power Input/Output (KW)	200KW/100KW
Max. Apparent Power Input/Output(KVA)	200KVA/110KVA
Rated Voltage (Vac)	380V/400V/415V
Voltage Range	-15%~+10%
Rated Power Frequency (Hz)	50/60Hz
Voltage Frequency Range	45~55Hz/55Hz~65Hz
Rated Output Current	151A/75.6A@220V 144.9A/72.5A@230V
Max. Output Current	151A/83.3A@220V 144.9A/79.7A@230V
Power Factor (cos ϕ)	> 0.99
Adjustable Power Factor Range	(1 lead...1 lag)
THDI	< 3%
Wiring Method	3P+PE/3P+N+PE

100kW Hybrid Inverter Parameters

MODEL	WIT 100K-HU
OFF-GRID PARAMETERS (AC)	
Rated Power (KW)	100KW
Max. Apparent Power (KVA)	120KVA
Max. Output Voltage	220V/230V/240V/380V/400V/415V
Rated Power Frequency (Hz)	50/60Hz
Max. Output Current	181.8A@220V 173.9A@230V
Voltage Accuracy	1%
Frequency Accuracy	0.1Hz
Output Harmonics	3% @ linear full load
Unbalanced Load	Allows 100% unbalance of single phase
Overload Capacity	≤110%, continuous;≤120%, 10min >120%, 200ms
Grid-connected to Off-grid Switching Time	< 20ms
Off-Grid to Grid-Connected Switching Time	0ms
EFFICIENCY	
Max. Efficiency	98%
Max. Charge/Discharge Efficiency	98%
MPPT Efficiency	99.90%
PROTECTION	
Input Reverse Connection Protection	Support
PV Input DC Switch	Support
DC Surge Protection	Support (Class II)
Insulation Impedance Testing	Support
RCD Testing	Support
AC Output Short Circuit Protection	Support
AC Surge Protection	Support (Class II)
Ground Fault Detection	Support
Grid Monitoring	Support
String Monitoring	Support
Anti-PID Function	Optional
Arc Fault Detection (AFCI)	Optional

100kW Hybrid Inverter Parameters

MODEL	WIT 100K-HU
DISPLAY AND COMMUNICATION	
Display	OLED+LED/WIFI+APP
USB	Support
RS485	Support
4G/WIFI	Optional
GENERAL PARAMETERS	
Dimensions (W*H*L)	820*1350*510mm
Weight	160kg
Operating Temperature Range	-30℃—+60℃ (> 50℃ decrease)
Noise	≤65dB (A)
Relative Humidity	0~100%
Max. Altitude	4000m
Power Consumption at Night	20W
Standby Power	250W
Topological Structure	Non-Isolation Transformer
Cooling Method	Intelligent Forced Air Cooling
Protection Level	IP66
Warranty	5 years (10 years optional)
CERTIFICATION	
Safety Regulations	IEC/EN 62109-1、IEC/EN 62109-2、IEC/EN62477-1
EMC	IEC/EN 61000-1、IEC/EN 61000-3
Grid Connection Standards	EN50549-1、NRS 097-2-1、G99:2020、UKCA、VDE 4105、VDE4110、CEI0-21:2019+V1:2020、CEI 0-16:2019+V1:2020、TOR Type A、VDE 0126、NC RFG、PSE-2018、PTPiREE-2021、C10/C11:2021、UNE 217001-2020、UNE 217002-2020、RD647:2020、NTS Type B



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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.

