

Microgrid System

500kW/1044kWh + 500kWp PV Microgrid System



Features

- Liquid Cooling
- Active Balancing
- Support 100% Unbalance
- Easy to Expand
- Support Flexible Configuration of Control Strategies
- Support DG Load Rate Control to Improve Fuel Economy



Innovated PV Microgrid System



Smart & Reliable Battery Management

- Active balancing
- Support black start
- Supports unattended operation, real-time monitoring

Advanced Thermal & Structural Design

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

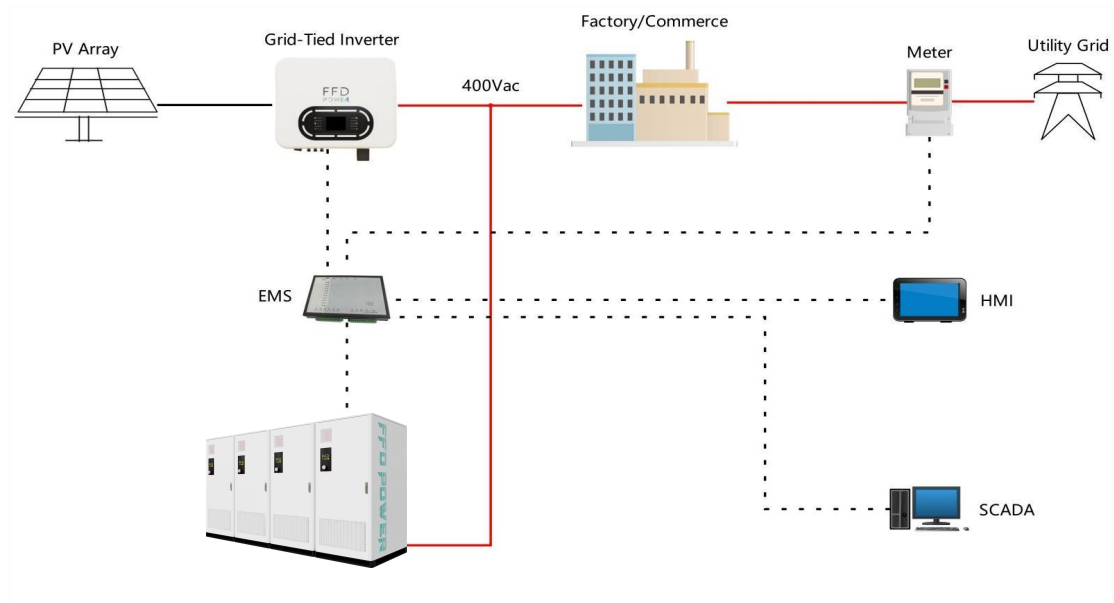
All-in-One System Integration

- EMS integrated with AWS Germany server
- Integrated with cloud-based EMS for remote monitoring and management.
- Plug and play

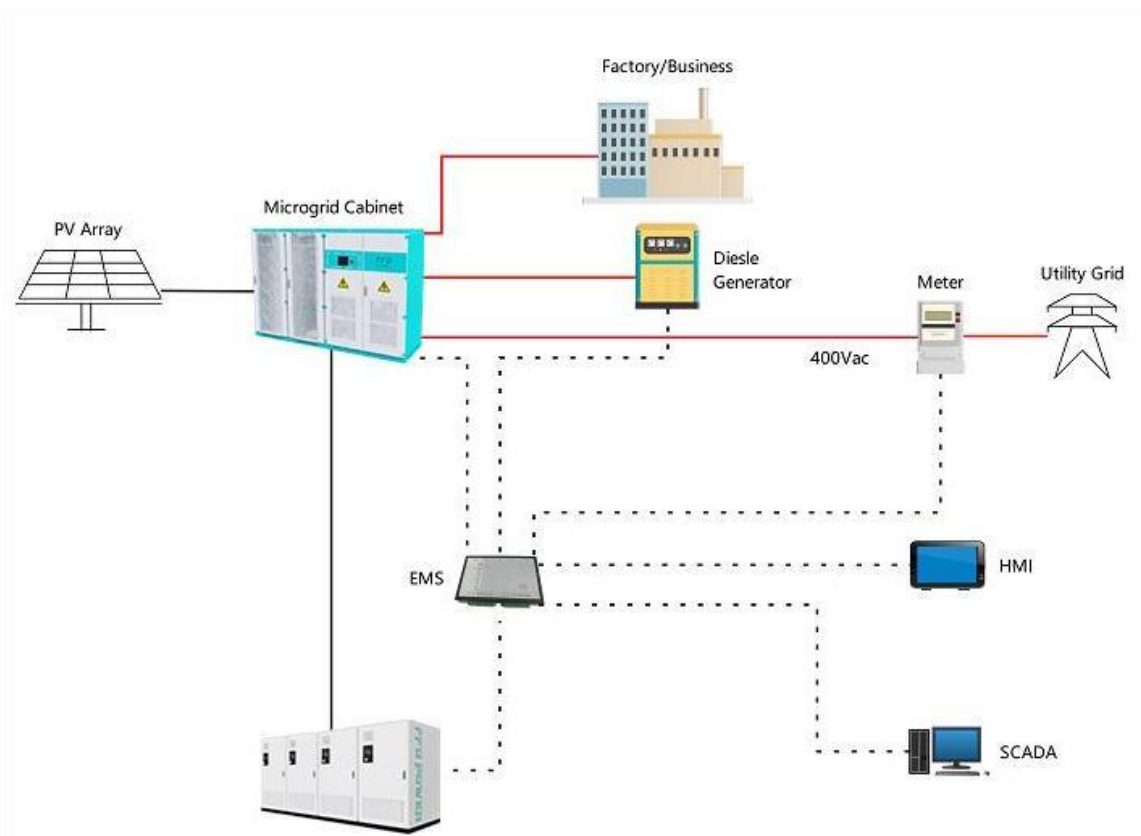
Smart Hybrid Inverter

- Integrated PV/MPPT module/transformer/STS and maintenance bypass
- Easy expansion, support PV flexible configuration.
- Support flexible configuration of control strategies.

Storage Cabinet System Applications



400V BESS Solution for PV Self-Consumption Optimization



Advanced 400V BESS for Microgrid Applications

Battery Cabinet Technical Parameters

Galaxy 261L*4 Battery Parameter	
Cell Type(Ah)	LFP, 314Ah
Battery Configuration	1P52S*5*4
Battery At DC Side (kWh)	261 kWh*4
System Output Voltage Range (V)	650V~949V*4
Dimensions Of Battery Unit (W *H * D) mm	1150*2230*1335mm*4
Weight Of Battery Unit (kg)	≈2850kg*4
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

MPS Microgrid Hybrid Inverter Parameters

Model	MPS0500
PV Input	
Max. PV input voltage (V)	1,000
Max.PV power (kW)	500
MPPT module quantity	10
MPPT voltage range (V)	250~850
MPPT voltage range@full load (V)	450-850
AC (ON-GRID)	
Max Output Power (kVA)	550
Rated Output Power (kW)	500
Voltage Range (V)	320~460
Rated Current (A)	722
Rated Frequency (Hz)	50/60
Frequency Range (Hz)	45~55/55~65
THDi	< 3%
Power Factor	1lagging-1leading (Settable)
AC Connection	3W+N+PE
Transformer Ratio	315/400
AC (OFF-GRID)	
Max Output Power (kVA)	550
Rated Power (kW)	500
Rated Voltage (V)	400
Rated Current (A)	722
THDu	≤1% linear; or ≤5% nonlinear
Rated Frequency (Hz)	50/60
Overload Capacity	110% long-term
General Data	
Dimension W*D*H (mm)	(600*720*2,050)*2+ 1,600*1,050*2,050
Weight (kg)	3,265/3,295/3,325
Operation temperature (°C)	-30 ~ 55
Relative humidity	0 ~95% non-condensing
Ingress protection	IP20
Noise emission (dB)	<70
Operating altitude (m)	<5,000(>3,000 Derating)
Cooling	Air Cooling
Certificates	EN 62109-1/-2, EN 62477-1, EN 61000-6-2/-6-4, IEC61727, IEC62116, IEC61683 NRS 097-2-1:2017, ASGC, AS/NZS 4417.1, CEI 0-21, CEI 0-16, G99 EN 50549-1, VDE 4105



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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.

