

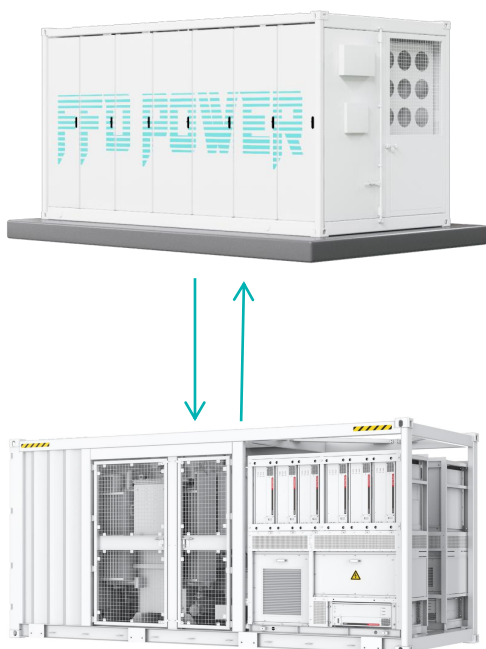
Galaxy 5015

String Type Energy Storage Container System

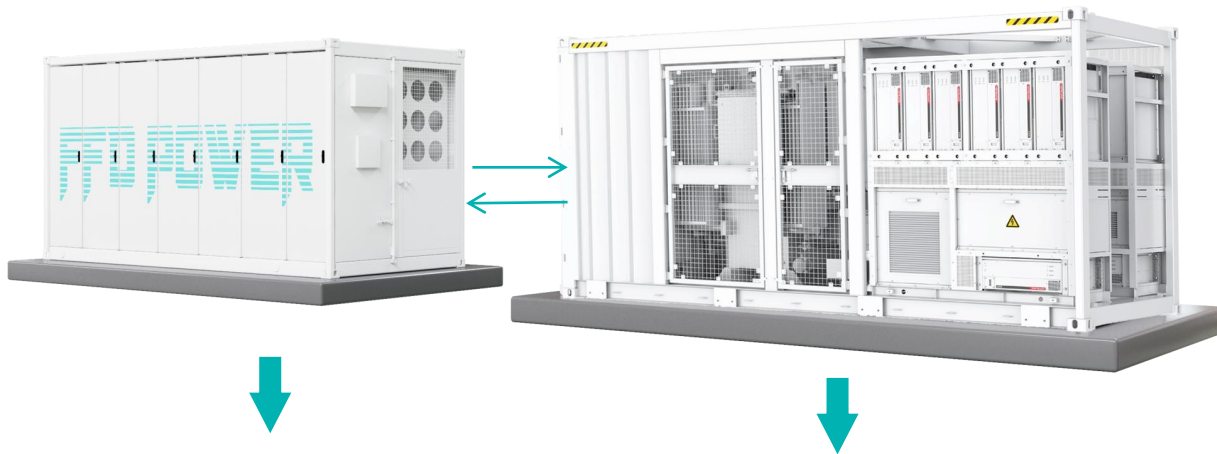


Features

- Liquid Cooling
- Enhanced System Efficiency & String-Level Safety
- VSG , PQ ,VF Function Available
- Optimized Battery Utilization for Extended Lifespan
- Simplified O&M and Increased System Flexibility
- More Cost-effective



5MWh Battery with HPPS-2500B PCS Station



**GALAXY 5015, 5MWh
Energy Storage Container**

**HPPS-2500B
String PCS Station**

Smart & Reliable Battery Management

- Very high volumetric energy density
- Modular layout for convenient servicing.
- Real-time monitoring

Advanced Thermal & Structural Design

- High-Efficiency liquid cooling
- Easy transport, loading, and installation with standard containers.
- Aerosol fire suppression integrated
- IP54 protection

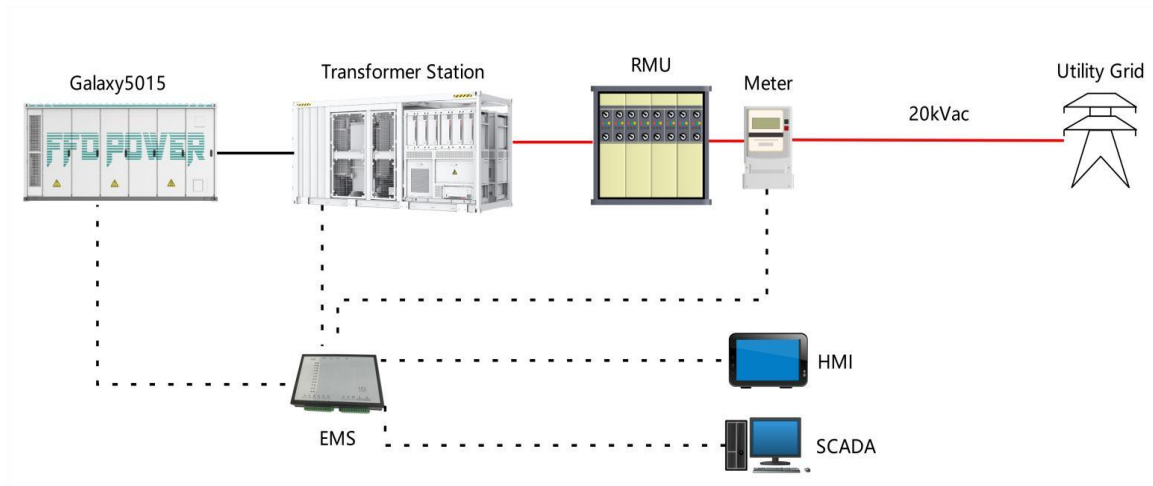
All-in-One System Integration

- Smart energy dispatch
- Supports black start
- Remote maintenance and updating access integrated
- Plug and play

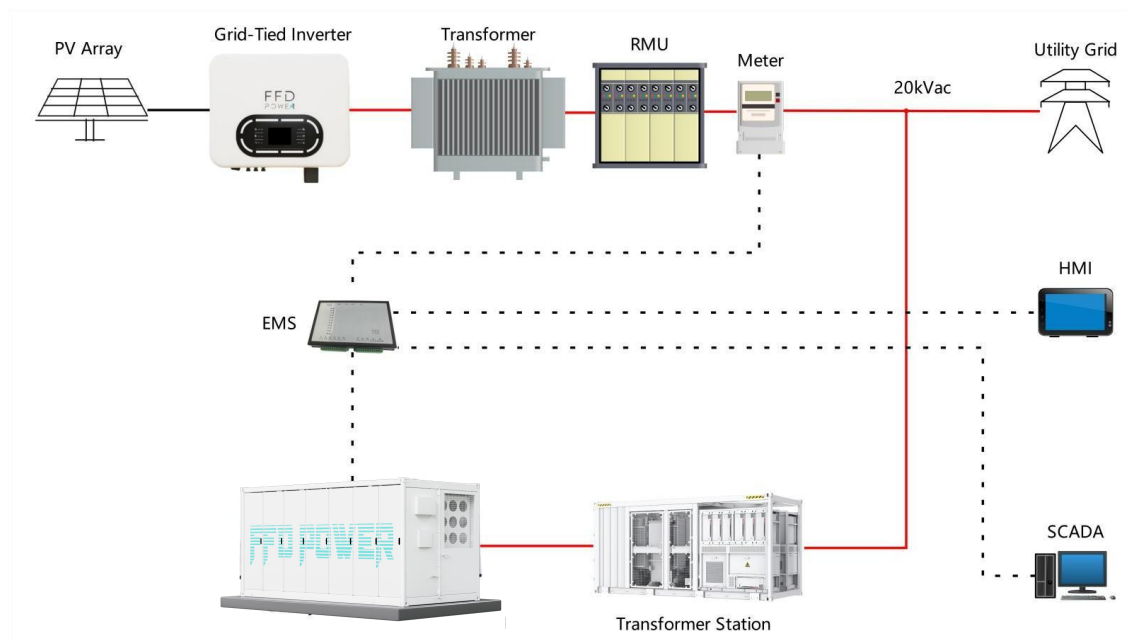
Smart High-Efficiency PCS

- String type
- Up to 99% conversion efficiency
- VSG , PQ ,VF function available
- Supports FCR, aFRR and more
- IP 66 protection

Containerized BESS Applications



Application of New Energy Peak and Valley Arbitrage



Application of grid FCR and aFRR

String PCS Technical Parameters

String PCS Parameter	
Module	ESHV250K-A-G01*12
DC Side	
Max. DC Current (Vdc)	1500
DC Voltage Range (Vdc)	1000~1500
Number of PCS	12
AC Side (On-Grid)	
Rated AC Output Power	2500KW@45°C
Max. AC Output Power (kVA)	2750
Rated Grid-tied Voltage (Vac)	690 3P3W+PE
Grid Voltage Range (Vac)	586.5~759(settable)
Grid Frequency Range (Hz)	45~55 / 55~65
Max. Output Current	2100A
Power Factor	>0.99 (at rated power)
THDi	< 3% (at rated power)
AC Side (Off-Grid)	
Rated AC Output Voltage	690Va
Max. Output Current	2100A
THDu	< 3% (liner load)
Rated Output Frequency	50Hz/60Hz
Overload Capability	110% overload
General Parameters	
Operation Temperature	-35°C~60°C (>45°C derating)
Relative Humidity	0~100% (no condensation)
Cooling Type	Intelligent forced air cooling
Altitude	4000m (>2000m customized)
Display	Touch screen
Protection Level	IP66
Communication Protocol	Modbus-RTU / Modbus-TCP

※The transformer and RMU parameters need to be customized according to actual conditions and are not reflected here

5MWh Battery Container Technical Parameters

Galaxy 5015 Battery Container Parameter	
Module	Galaxy 5015 (String-Type)
Cell Type(Ah)	LFP, 314Ah
Battery Configuration	12 Rack ×4 Pack ×1P104S
Battery At DC Side (kWh)	5015
System Output Voltage Range (V)	1164.8~1456
Dimensions Of Battery Unit (W *H * D) mm	6058×2438×2896 (20ft HQ)
Weight Of Battery Unit (kg)	≈44000kg
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
Cooling Concept Of Battery Cabinet	Smart Liquid Cooling
Fire Safety Equipment	Fire alarm, Perfluorohexanone(C6F12O)/ Heptafluoropropane (C3HF7)/Aerosol

Battery Cluster Technical Parameters

Battery Cluster Technical Parameters	
Cell Type	314Ah
Combination Method	1P416S
Battery Cluster Nominal Voltage (V)	1331.2
Battery Cluster Voltage Range (V)	1164.8 ~ 1497.6
Rated Capacity (Ah)	314
Battery Cluster Nominal Capacity (kWh)	418
Rated Charge and Discharge Rate	0.5P
Working Temperature Range (°C)	Charge: 0°C ~ 55°C Discharge: - 30°C ~ 60°C
Humidity(%)	5% ~ 95%
Cooling Method	Liquid Cooling



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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.

