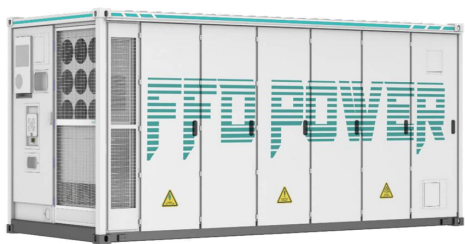


Galaxy 5015

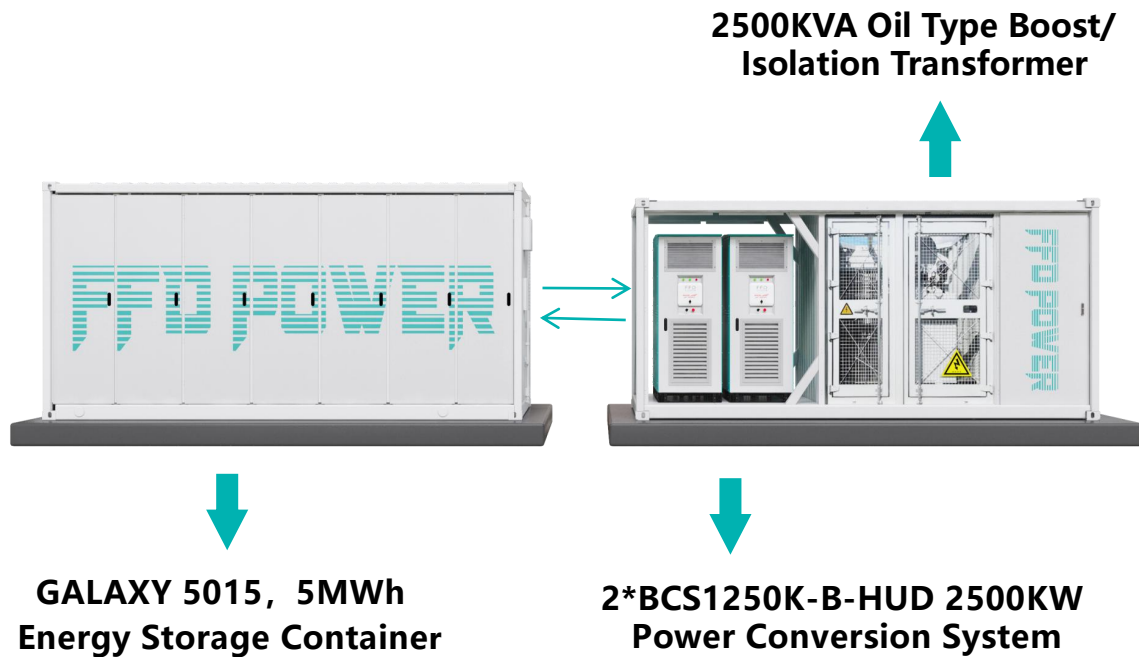
Centralized Containerized Energy Storage System



Features

- Liquid Cooling System
- Centralized Management
- Support Grid-forming, Islanding Detection
- VSG , PQ ,VF Function Available
- Plug and Play
- More Cost-effective

5MWh Battery with 2500KW PCS Station



Smart & Reliable Battery Management

- Centralized BMS unified management
- High efficiency at full load
- Real-time monitoring
- Flexible communication protocols

Advanced Thermal & Structural Design

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

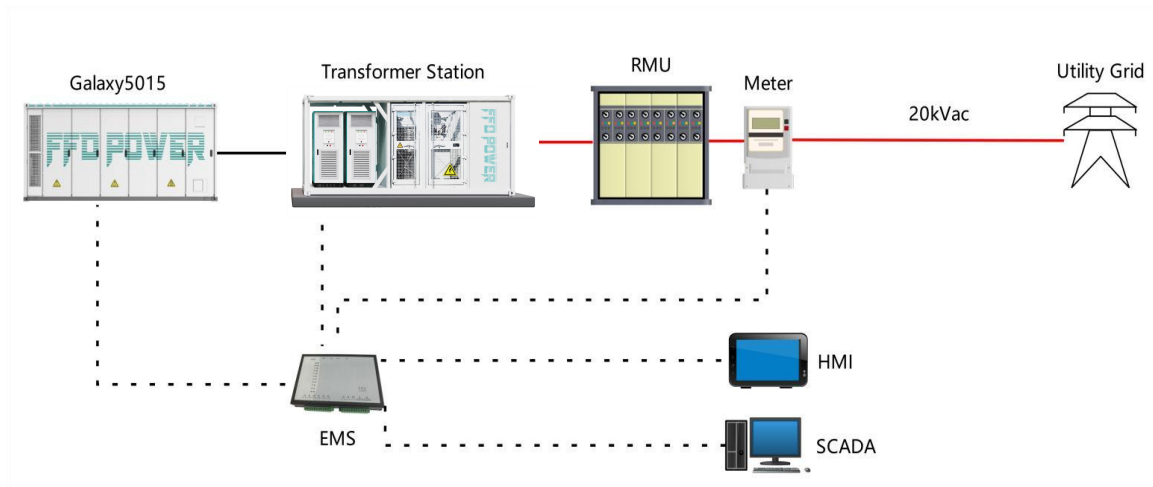
All-in-One System Integration

- Supports black start
- Remote maintenance and updating access integrated
- Plug and play
- Intelligent Scheduling Optimization

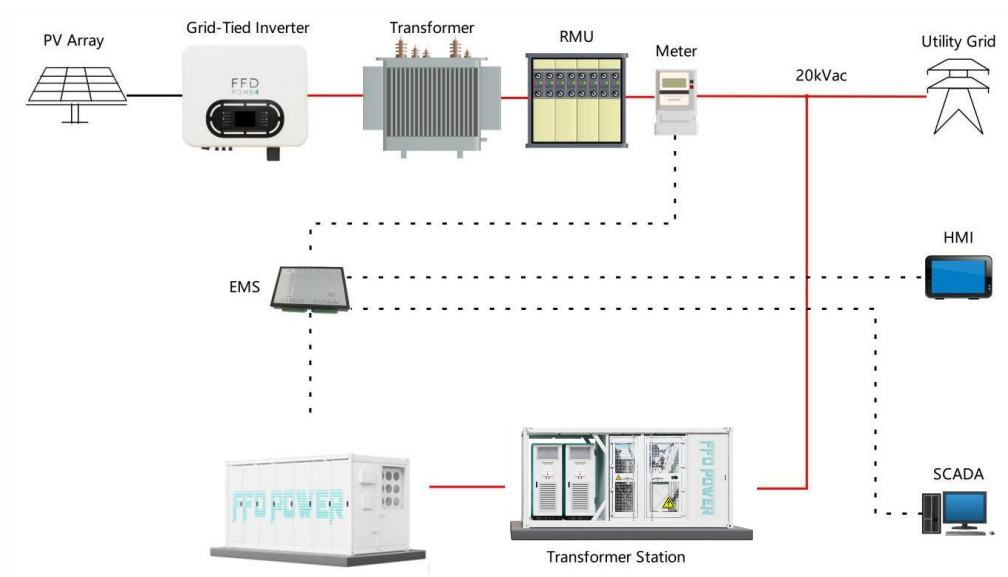
Smart High-Efficiency PCS

- VSG, PQ, VF function available
- Support Grid-forming, Islanding detection
- Supports FCR, aFRR and more
- IP 55 protection

Containerized BESS Applications



Application of New Energy Peak and Valley Arbitrage



Application of Grid FCR and aFRR

5MWh Battery Container Technical Parameters

Galaxy 5015 Battery Container Parameter	
Module	Galaxy 5015 (Centralized-Type)
Cell Type(Ah)	LFP, 314Ah
Battery Configuration	2 Stack ×6 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℃ ~ 60℃ (> 45℃ derating)
Max. Working Altitude (m)	3000
Cooling Concept Of Battery Cabinet	Smart Liquid Cooling
Fire Safety Equipment	Fire alarm, Perfluorohexanone(C6F12O)/ Heptafluoropropane (C3HF7)/Aerosol

2500KVA Transformer Technical Parameters

Transformer Technical Parameters	
Item	SL-2500/20
Rated capacity (KVA)	2500
Rated Voltage low voltage side (KV)	0.69
Rated Voltage high voltage side (KV)	20
Wiring group	Dy11
Impedance voltage (%)	6, Deviation ±10%
Load loss (kW)	≤18.5
No-load current (%)	≤0.55
No-load loss (kW)	≤1.575

2500kW PCS Technical Parameters

PCS Technical Parameters	
Item	BCS1250K-B-HUD *2
DC Input	
Max. DC Voltage (Vdc)	1500
DC Voltage Range (Vdc)	1000-1500
Max. DC Current (A)	3086
Soft Start	YES
AC Output (On-Grid)	
Rated AC Output Power	2500KW@45°C
Max. AC Output Power (kVA)	2750
Rated Grid-tied Voltage (kVA)	690Vac 3P3W+PE
Grid Voltage Range	-15%~10% (settable)
Grid Frequency Range	50Hz
Max. Output Current (A)	2302
Power Factor	>0.99 (at rated power)
THDi	< 3% (at rated power)
AC Output (Off-Grid)	
Rated AC Output Voltage (Vac)	690
Max. Output Current (A)	2302A
THDu	< 3% (liner load)
Rated Output Frequency	50Hz/60Hz
Overload Capability	110% overload
PCS Efficiency	
Max. efficiency	99%
General Date	
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	IP55
Communication Protocol	Modbus-RTU / Modbus-TCP / IEC61850 /IEC104

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

+86 13377773990

sales@ffdtec.com

@FFD POWER

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www.ffdpower.com

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.

