



FlexiStore Commercial and Industrial Energy Storage System

Introduction

The FlexiStore commercial and industrial (C&I) product series, developed by Shanghai Electric, is a standardized portfolio featuring high safety and high reliability. Adopting a highly integrated system design, the series offers flexible adaptability to a wide range of C&I scenarios, enabling peak-shaving and valley-filling, load shifting, and alleviating stress on the power grid. The

products adopt a liquid-cooled integrated single-row design, and feature long cycle life, excellent temperature consistency, high energy density, plug-and-play functionality, and a simple and compact structure. They can be equipped with an operation and maintenance management platform to realize remote monitoring and facilitate easy operation and maintenance.

System Features



Standardized & integrated design

- Modular design for easy maintenance
- Integrated design with plug-and-play functionality for easy installation
- Compact size for high space utilization
- Remote installation guidance available



Seamless switching & redundant power supply

- Dual-circuit redundant power supply supported with AC priority
- Seamless switching to DC power upon AC power failure



Safety, environmental friendliness & strong adaptability

- Both grid-connected and off-grid operations available, with optional function of seamless grid-connected/off-grid switching
- Equipped with an aerosol fire protection system compliant with fire protection requirements of NFPA-855—high safety and environmental friendliness



Comprehensive protection & real-time monitoring

- Ethernet communication supported (Modbus-TCP protocol)
- Three-level protection and control strategy tailored for lithium battery BMS
- Advanced BMS real-time detection to ensure safe operation on both AC and DC sides



Excellent electrical performance & long service life

- High battery consistency and low internal resistance for superior charge and discharge performance
- Excellent thermal management design and outstanding temperature difference control to meet the requirements for long-life operation



Unattended operation & intelligent operation and maintenance

- Can be connected to the intelligent energy storage operation and maintenance system, supporting comprehensive remote monitoring via computer WEB and mobile terminals
- Cloud-edge collaboration to support fault alert and remote control, facilitating safe operation
- Intelligent statistical analysis to provide key data reports
- Remote software upgrade supported

Application Scenarios



Zero-carbon
Smart Parks



PV-storage-charging
Integration



Commercial
Complexes



Data
Centers



5G Base
Stations



Residential
Use



Microgrid



Mining
Areas



Emergency Energy
Storage Power Supplies



Urban Rail
Transit

System Parameters

Product Model		F261-S ①	F261-I	F261-G ②
System Parameters				
Nominal Energy, kWh		261		
Actual Output Energy, kWh		242		
Charge/Discharge Rate		0.5P		
Operating Humidity Range		0%~95%		
Operating Ambient Temperature		-20 °C – +50 °C (Derating above 45°C)		
Altitude		≤3000m		
System Cycle Life		≥8000, 0.5C@25°C 70%EOL		
Maximum System Cycle Efficiency		90%		
External Communication		RJ45 interface, Modbus-TCP protocol		
Maximum Number of Off-grid Parallel Units		Limited to single unit; seamless grid-connected/off-grid switching supported	8 units	
Maximum Number of Grid-connected Parallel Units		12 units		
Cooling Method		Liquid cooling		
Noise		≤80dB(A)@1m		
IP Rating		IP55		
Corrosion-proof Grade		C3-M ③		
Fire Protection System		Aerosol, equipped with combustible gas detectors, air intake and exhaust system, and explosion venting panels, supporting water fire protection access ④		Aerosol
Dimensions, W×D×H		1.0×1.35×2.4m		
Weight, T		2.7		
Certification Standards	Cell	UL 9540A, IEC62619		
	Module	UL 9540A, IEC62619, UN38.3		GB/T 36276
	PCS	EN 62477-1:2012+A11+A1+A12, EN IEC 61000-6-2:2019\IEC 61000-6-4:2019		GB/T 34120
	Whole Cabinet	IEC 62619: 2022, IEC 63056: 2020, EN 62477-1:2012+A11+A1+A12, EN IEC 61000-6-2:2019\IEC 61000-6-4:2019, EN 50549-1:2019+A1\ EN 50549-10:2022, UN 38.3		GB/T 36276
Battery Parameters (DC)				
Rated Capacity		314Ah (LFP)		
Configuration		1P260S		
Rated Voltage, V		832		
Voltage Range, V		728-936		
PCS Parameters (AC)				
Output Power		125kW		
Rated Voltage, V		AC400V (-10%~10%)		
Frequency		50/60Hz		
Power Factor Range		-1 (leading) – +1 (lagging)		

Note: The product appearance and parameters are for reference only. The actual products shall prevail.

Note: The product adopts an AC and DC redundant power supply design to provide power guarantee for critical loads.

Note: The electricity meter inside the product is optional.

Note ①: F261-S features a built-in STS that supports seamless grid-connected/off-grid switching. Off-grid operation is limited to single-unit use.

Note ②: F261-G is the domestic version, and is for domestic use only.

Note ③: Designed in accordance with the NFPA-855 standard.

Note ④: The standard product has a corrosion-proof grade of C3-M, and higher standards can be customized.

Internal Layout Drawing of the Product

