



FlexiStore 261 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

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|  <p>Standardized & integrated design</p> <ul style="list-style-type: none"> ■ 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 |  <p>Comprehensive protection & real-time monitoring</p> <ul style="list-style-type: none"> ■ 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 |
|  <p>Seamless switching & redundant power supply</p> <ul style="list-style-type: none"> ■ Dual-circuit redundant power supply supported with AC priority ■ Seamless switching to DC power upon AC power failure |  <p>Excellent electrical performance & long service life</p> <ul style="list-style-type: none"> ■ 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 |
|  <p>Safety, environmental friendliness & strong adaptability</p> <ul style="list-style-type: none"> ■ 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 |  <p>Unattended operation & intelligent operation and maintenance</p> <ul style="list-style-type: none"> ■ 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

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| 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	-30 °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)		

General Notes:

- The product appearance and parameters are for reference only. The actual products shall prevail.
- The product adopts an AC and DC redundant power supply design to provide power guarantee for critical loads.
- 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

