

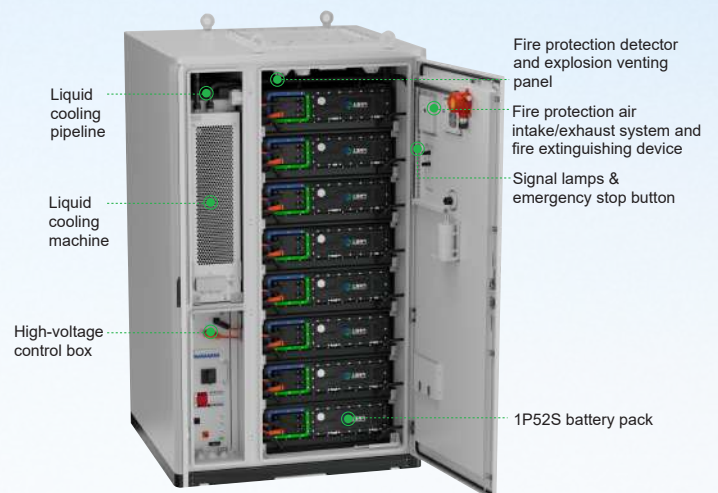
FlexiStore

Commercial and Industrial Energy Storage System F418



INTRODUCTION

The F418 series commercial and industrial products are DC-side energy storage solutions meticulously designed by Shanghai Electric for commercial and industrial scenarios. Featuring an integrated design, it is compatible with both centralized and distributed PCS, covering a wide range of project scenarios. The standardized modular architecture of the product allows for flexible capacity expansion by simply adding cabinet units. This design ensures precise matching to customized project needs across all scales, delivering exceptional scalability and compatibility. Equipped with an intelligent operation and maintenance platform, the system offers real-time remote monitoring, intelligent fault early warning, and automated energy efficiency dispatch. It is fully compatible with diverse applications such as peak-valley arbitrage, PV-storage synergy, demand charge management, and emergency backup. With core values of simplified operation and maintenance, high efficiency, energy savings, and flexible capacity expansion, the F418 empowers enterprises to reduce electricity costs, optimize energy architecture, and propel industrial parks towards a new era of green, low-carbon, and smart energy usage.



SYSTEM FEATURES



Unattended operation & intelligent operation and maintenance



Ultra-long cycle life & enhanced energy efficiency



Comprehensive protection & real-time monitoring



Excellent electrical performance & ultra-long cycle life



Safety, environmental friendliness & strong adaptability



Standardized & integrated design

STANDARD SYSTEM PARAMETERS

Product Model	F418
Configuration	1P52S×8
Discharge Rate	0.5P
Nominal Energy, kWh	418
Voltage Range, V	1164.8-1497.6
DC-side Efficiency	94%
IP Rating	IP55
Corrosion-proof Grade	C3-M ①
Communication Interfaces	LAN
Communication Protocols	Modbus-TCP
Operating Ambient Temperature	-30–50°C②
Cooling Method	Liquid cooling
Fire Protection	Aerosol, equipped with combustible gas detectors, air intake and exhaust system, and explosion venting panels; with provisions for water fire protection access
Humidity Range	5%–95%
Altitude	≤3,000m, derating above 2,000m
System Cycle Life	≥8000, 0.5C@25°C 70%EOL
Dimensions, W×D×H	1.4×1.32×2.35m
Weight, T	3.7
Product Certification	UL9540A, UN3480, IEC62619, IEC61000, EN 62477, IEC 63056, GB/T 36276

Note: The product appearance and parameters are for reference only. The actual products shall prevail. It is compatible with MW-scale centralized and kW-scale distributed PCS.

Note①: The corrosion protection rating can be customized to meet the standards of different countries/regions.

Note②: Derating is required when the temperature exceeds 45°C.

APPLICATION SCENARIOS



Zero-carbon
Smart Parks



Data Centers



Residential Use



Commercial Complexes



Communication
Base Stations



Microgrid



Mining Areas



PV-storage-charging
Integration



Emergency Energy
Storage Power Supply



Urban Rail Transit