

F400 C&I Energy Storage System (ESS)



Introduction

F400 C&I ESS product is made by Shanghai Electric for industrial and commercial application scenarios, aiming to provide a solution with high-safety, high-reliability, and easy scalability. The product adopts a highly integrated system design and it can flexibly match various C&I scenarios. The product can help relieve grid pressure through the practice of peak-shaving or energy shifting under different electricity consumption patterns, and it is suitable for applications in micro-grid scenarios. The product is also equipped with Smart OPS which can help achieve real-time monitoring and remote control.

Features



Standardized Design

- Modularized design, easy maintenance
- All-in-one, plug and use
- Compact design, space-saving
- Remote technical support available



Seamless switching & redundant power supply

- Dual auxiliary power supply, more redundancy
- Seamless transition between AC & DC aux-power



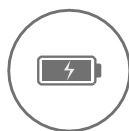
Eco-friendly and safe & highly adaptable

- On-grid & off-grid operation with on-grid & off-grid switching functions
- Multi-level fire protection system of high safety, with environmental friendly fire-extinguishing medium



Comprehensive Protection

- Network communication Modbus-TCP protocol
- 3-level BMS for overall protection
- Real-time data collection with high accuracy



Superior Performance & Longevity

- High cell consistency, low internal resistance
- Superior thermal-management design



Intelligent O&M

- Smart OPS clouding-service platform
- Remote problem detecting, failure analysis reports*
- Intelligent statistical analysis, providing key information data report
- Remote O&M and software upgrading* (* if allowed by local law & regulations)

Application Scenarios



Zero-carbon
industrial parks



Solar-storage-
charging stations



CBD centers



Data centers



5G stations



House-hold



Micro-grid



Mining area



Power backup



City railways

System Parameter

Model Type	F400
Cell Grouping	1P52S×8
Discharge Rate	0.5P
Recommended PCS Power	100kW-200kW
Rated Energy kWh	418
Available Energy kWh	376
DC Voltage Range V	1164.8-1497.6
Maximum system RTE	93%
Protective Class	IP55
Anti-corrosion Class	C3-M ^①
Communication Port	RJ45, Modbus-TCP protocol
Working Temperature	-30~50°C ^②
Cooling Mechanism	Liquid Cooling
Fire Extinguishing Medium	Aerosol
Humidity Range	5%~95%
Operating Altitude	≤2000m
Cycle Life	≥8000, 0.5C@25°C 70%EOL
Dimension W×D×H	1400(mm)×1300(mm)×2450(mm)
Weight T	3.7
Certifications	IEC62619、UN38.3、IEC61000

Note: The product picture is for reference ONLY.
Note ①: The standard anti-corrosion class is C3-M, while a higher class can be customizable.
Note ②: Usage over 45°C working temperature will be derating.

