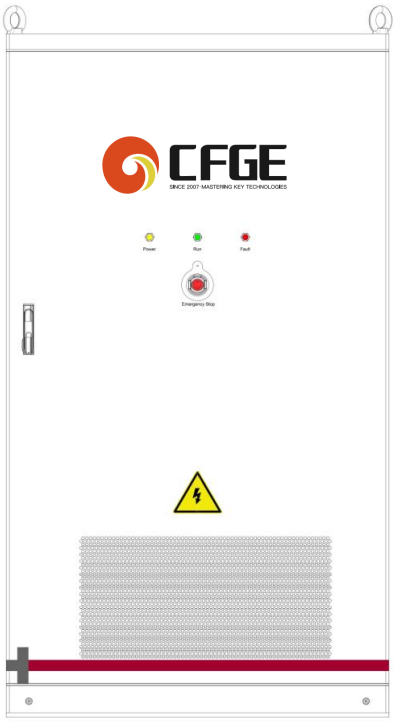
二汇一并离网切换柜

Two-Input Grid Transfer Cabinet

内置 STS 与隔离变压器 / Integrated STS and Isolation Transformer



支持接入 1 台或 2 台储能柜，集成 STS 自动并离网切换、储能侧隔离变压器、预充及断路保护。电网侧总功率 250 kW，由负载用电与储能充电共享。

Connects one or two storage cabinets and integrates STS, storage-side isolation, pre-charge and circuit protection. The 250 kW grid-side power budget is shared between loads and battery charging.

快速并离网切换 / Fast grid transfer

电气隔离与变压器预充 / Electrical isolation and pre-charge

户外 IP55 柜体 / IP55 outdoor cabinet

功率分配 Power Allocation

并网时，负载与储能总充电功率共享 250 kW。单台储能以 125 kW 充电时，负载可分配 125 kW；降低充电功率，可增加负载供电功率。两台储能同样按总功率统筹分配。

On-grid, loads and total battery charging share 250 kW. Charging one cabinet at 125 kW leaves 125 kW for loads. Slower charging allows more load power; the same shared budget applies with two cabinets.

交流接入参数 AC Connection Specifications

参数 Parameter	规格 Specification
柜体额定电压 Cabinet rated voltage	400 V AC
储能柜接入数量 Storage cabinets connected	1 台或 2 台 / One or two
STS 电网侧额定功率 STS grid-side rated power	250 kW
STS 电网侧额定电流 STS grid-side rated current	380 A AC
单台储能充电功率 Charging power per cabinet	≤ 125 kW
负载功率分配 Load power allocation	随总充电功率调整 / Adjusted with total charging power

STS 自动切换 Automatic Transfer with STS

参数 Parameter	规格 Specification
STS 型号 STS model	STS-250KS
并网转离网时间 On-grid to off-grid transfer	< 10 ms
STS 电压及允许范围 STS voltage / tolerance	380 / 400 V AC；±15%
STS 额定频率 STS rated frequency	50 / 60 Hz，±5 Hz
STS 通信接口 STS communication	RS485 / CAN / Ethernet

功率分配需预留损耗及辅助用电，并满足各支路容量。离网带载能力由储能、PCS 与隔离支路确定。
Allow for losses and auxiliary consumption within branch ratings. Off-grid capacity depends on storage, PCS and the isolation path.

系统参数与配置

System Specifications and Configuration

柜体与安装 Enclosure and Installation

参数 Parameter	规格 Specification
外形尺寸 宽 × 深 × 高 Dimensions W × D × H	1,200 × 1,350 × 2,150 mm
整柜重量 Cabinet weight	1,100 ± 10 kg
整柜防护等级 Cabinet ingress protection	IP55
安装位置 / 工作海拔 Location / operating altitude	户外 / Outdoor；≤ 2,000 m
电缆进出线 Cable entry / exit	下进下出 / Bottom entry and exit

内置隔离变压器 Integrated Isolation Transformer

隔离变压器用于储能侧，电网侧不经过隔离变压器。

The transformer serves the storage side; the grid-side path bypasses it.

参数 Parameter	规格 Specification
额定容量 Rated capacity	150 kVA（手册配置 / manual configuration）
额定输入 / 输出电压 Rated input / output voltage	400/400 V
相数 / 联结组别 Phases / vector group	三相 / Three-phase；Dyn11
导体 / 绝缘等级 Conductor / insulation class	铝 / Aluminum；Class H
变压器效率 Transformer efficiency	≥ 97%
冷却 / 工作环境 Cooling / ambient temperature	AN；−20 to +50 °C
预充功能 Transformer pre-charge	内置 / Integrated

保护与辅助配置 Protection and Auxiliary Equipment

参数 Parameter	规格 Specification
电网总断路器 QF1 Grid main breaker	400 V AC / 500 A；分励脱扣 / Shunt trip
断路器 QF2 Circuit breaker QF2	400 V AC / 315 A；电操及分励脱扣 Motor operation and shunt trip
负载 / 储能断路器 QF3 / QF4 Load / storage breakers	各 400 V AC / 315 A each
浪涌保护器 Surge protective device	DXH06-FCS-4R40
防逆流计量 / 电流互感器 Export metering / CT ratio	YDS60-80；500 A / 5 A
辅助电源与备用供电 Auxiliary / backup supply	AC 220 V / DC 24 V，240 W；24 V 备用电池 24 V backup battery
急停与状态指示 Emergency stop / indication	急停按钮；电源、运行、故障指示 Emergency stop; power, run and fault indicators