

120kWh工商业储能柜 (HDES-120-FC)

120kWh Commercial & Industrial Energy Storage Cabinet



产品概要

PRODUCT OVERVIEW

HDES_120_FC 是面向小型工商业场景设计的一体化户外储能柜，采用磷酸铁锂电池与风冷散热方案，系统容量 120kWh，额定功率 60kW。产品集成电池簇、BMS、EMS、变频风冷、消防探测与灭火系统，具备过流、过热、消防联动等多重保护，可用于电力储能、备用电源、削峰填谷、调频及光储微电网等场景，为用户提供安全、高效、稳定的一站式储能解决方案。

HDES_120_FC is an integrated outdoor energy storage cabinet designed for small commercial and industrial scenarios. Adopting LiFePO4 battery and air-cooling solution, it features 120kWh system capacity and 60kW rated power. The cabinet integrates battery clusters, BMS, EMS, variable-frequency air cooling, fire detection and suppression systems with multi-level protections. It is widely used in energy storage, backup power, peak shaving, frequency regulation and PV-storage microgrids.

产品亮点

PRODUCT HIGHLIGHTS



一体化集成设计

All-in-one integrated design

集电池包、BMS、EMS、风冷、消防、配电于一体，安装便捷、占地面积小、运维简单。

Integrates battery packs, BMS, EMS, air cooling, fire protection and power distribution in one unit, featuring convenient installation, small footprint and easy operation & maintenance.



高效风冷温控

High-efficiency air-cooling system

采用变频风冷机组，智能分段调节风量，高效能效比、控温精准、运行更节能。

Adopts a variable-frequency air-cooling unit with intelligent staged air volume adjustment, delivering high energy efficiency ratio, precise temperature control and more energy-saving operation.



智能管理与通讯

Intelligent management & communication

内置 EMS 与 BMS，支持 CAN/485/TCP 通讯，可远程监控、状态告警、数据上传。

Built-in EMS and BMS support CAN/485/TCP communication, enabling remote monitoring, status alarm and data upload.



标准化易扩展

Standardized & scalable

标准化设计，可多柜并联，适配工商业储能、微电网、备用电源等多场景。

Standardized design supports multi-cabinet parallel connection, adapting to multiple scenarios such as commercial and industrial energy storage, microgrids and backup power supplies.

规格参数

SPECIFICATION PARAMETERS

型号	HDES-120-FC
电池类型	CELL: LFP-314Ah
系统串并数	1P120S
额定电压 (V)	384
额定容量 (KWh)	120
额定充放电功率 (kW)	60
建议 SOC 使用范围	0%~100%
循环次数	6000 (Cycle 100%充放, 衰减到70%)
直流侧效率	≥95%
尺寸 (宽X深X高)	650*1570*2005mm
重量 (KG)	1170Kg
环境温度范围	-20~50℃
最高工作海拔 (米)	≤ 5000 (≥2000降额)
防护等级	IP54
搬运方式	底部叉车孔叉装, 顶部吊环
维护方式	前后维护
保护	过流保护
	过热保护
	消防保护
Pack参数	
成组方式	1P24S
额定容量	314Ah
额定电压	DC76.8V
工作电压范围	DC62.4 ~ 87.6V
额定能量	24.115kWh
外形尺寸	430*1120*250mm (宽*深*高)
标准重量	157Kg
消防参数	
产品名称	热气溶胶灭火装置, 感烟感温复合火灾探测装置
产品型号	QRR0.15G, JTY-ZH203
工作电压	DC24V±15%
额定电流	≤ 50mA
传感器类别	一氧化碳, 烟雾, 温度
输出接口	干接点输出*3
运行环境	≤95% (RH) ; -20℃-95℃

