



BESS

FLUX 261

C&I ENERGY STORAGE SYSTEM

Overview

A compact and safe LFP-based C&I energy storage system delivering 261 kWh with a 400V architecture. Designed for reliable operation in harsh environments with IP55 protection, liquid cooling, and performance from -20°C to 55°C and up to 4000 m altitude.

It features strong safety with aerosol + water fire suppression, and easy integration through RS485/Ethernet communication. Ideal for commercial and industrial energy backup, peak shaving, and newable integration.

Key applications

- Commercial and industrial buildings
- UPS + DG Replacement
- Microgrid systems
- Renewable energy integration
- EV charging support
- Uninterrupted power for critical operations

Scalable configuration

A flexible, modular BESS with a base capacity of 261 kWh, expandable up to 2 MWh as your energy needs grow.

Confidence Built In

Comprehensive maintenance and care services engineered to maximize reliability, safety, and system uptime.



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C&I Energy Storage System

Category	Parameter	Value
DC Parameters	Cell Type	LFP-3.2V-314Ah
	Battery Rated Capacity	261.248 kWh
	Nominal Voltage	832 Vdc (Voltage range: 728–936 Vdc)
	Charging / Discharging C-Rate	≤0.5 CP
	Cooling Method	Intelligent Liquid Cooling
AC Parameters (Grid-connected)	Rated Power	125 kW
	Grid Voltage	400 V (-10% ~ 10%)
	Rated Current	180 A
	Rated Grid Frequency	50 Hz / 60 Hz
	Grid Frequency Range	45–55 Hz / 55–65 Hz
	Total Current Harmonic Distortion	<3% (At rated power)
	Power Factor	>0.99 (At rated power)
AC Parameters (Off-Grid)	Power Factor Adjustable Range	-1 (leading) ~ 1 (lagging)
	AC Off-grid Voltage	400 V (-5% ~ 5%)
	AC Off-grid Frequency	50 Hz / 60 Hz
System Parameters	Off-grid Output Voltage Distortion	<3% (Linear load)
	Cooling Method	Liquid Cooling + Air Cooling
	Fire Protection System	Aerosol + Water-based Fire Protection (Optional)
	Anti-corrosion Grade	C4
	Protection Level	IP54 (IP55 for battery compartment)
	Operating Temperature Range	-20°C ~ +45°C (Derating when >45°C)
	Storage Temperature	-20°C ~ +35°C (≤6 months) / -20°C ~ +45°C (≤1 month) (SOC @20%~50%)
	Operating Humidity Range	0 ~ 95% RH (No condensation)
	Installation Method	Outdoor Installation
	Working Condition	Max. 2 charges & 2 discharges per day
	System Communication Interface	Ethernet / RS485
	External System Communication Protocol	Modbus TCP / IEC104 / Modbus RTU
	Altitude	Within 4000m (Derating when >2000m)
	Dimensions (W × D × H)	1350 x 1326 x 2180
	Weight	2490±5%kg
Certification	IEC62619, IEC60730, IEC61000, IEC62477, EN50549, VDE4105, VDE4110, VDE4120, UN38.3, UN3480	