

Residential ESS

CFE-5100X



Efficient and Flexible

- Simple buckle fixing minimizes the installation time and cost.
- Flexible series / parallel configuration increases system voltage and capacity without additional hardware.



Safe and Secure

- LFP (lithium iron phosphate, LiFePO₄) offers the highest safety.
- Supports up to 8 units in series or parallel.



Excellent Quality

- ≥80% capacity retention after 6,000 cycles (test conditions apply).
- Integrated Wi-Fi Modem OTA online upgrade offers convenient after-sales service.



Efficient Management

- Efficient management includes accurate sampling of voltage and current.

Model	CFE-5100X
Total Energy	5.1 kWh
Usable Energy (DC)	4.6 kWh
Max. Discharge Power	5.0 kW
Nominal Capacity	100 Ah
Voltage Range	48 – 56 Vdc
Nominal Voltage	51.2 Vdc
Application (Indoor / Outdoor)	Indoor
Charge Operating Temperature	0 to 45 °C
Discharge Operating Temperature	-10 to 55 °C
Dimensions (W × D × H)	442 × 450 × 133 mm
Weight	44 kg
IP Rating	IP20
Protective Class	I
Parallel or Series Support	Up to 8 in series or parallel
Relative Humidity (RH)	0 – 95% RH (non-condensing)
Cooling Type	Ambient cooling
Case Material	Metal
Color	Black
Installation	Cabinet, Wall Mounting, Ground Installation
Warranty & Cycle Life	10-year warranty; ≥6,000 cycles (conditions apply; see test conditions).
Communication	CAN / RS485
Protection Mode	Triple Hardware Protection
Battery Protection	Over-Current / Over-Voltage / Short Circuit / Under-Voltage / Over-Temperature
Transport	UN38.3 (tested) ; UN3480 as applicable
Certificates	CE / CB

Multi - layer hardware interlocks for over-current, over-voltage, short-circuit, under-voltage and over-temperature protection.

CFE ESS Co., Ltd.

CFE has offices & warehouses in the following regions where you can get in touch with us:

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