

Residential ESS

CFE-5



Efficient and Flexible

- Tool-free quick-mount design reduces installation time.
- Scalable capacity expansion — add modules without extra hardware.



Excellent Quality

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



Safe and Secure

- LFP (lithium iron phosphate, LiFePO_4) chemistry for high thermal stability.
- Supports up to 8 in parallel connections.



Efficient Management

- Accurate sampling of voltage and current.
- SoC estimation is stable and consistent under typical use.

Model	CFE-5
Total Energy	5.12 kWh
Usable Energy (DC)	4.6 kWh
Max. Discharge Power	5.0 kW
Rated 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	42 kg
IP Rating	IP20
Protective Class	I
Parallel Support (Maximum)	Up to 8 in parallel
Relative Humidity (RH)	0 – 95% RH (non-condensing)
Cooling Type	Ambient cooling
Case Material	Metal
Color	White
Installation	Cabinet, Wall Mounting, Ground Installation
Warranty & Cycle Life	5-year warranty; ≥6,000 cycles (@25 ± 2 °C, 0.5C / 0.5C, 80% DoD)
Communication	CAN / RS485
Protection Mode	Multiple Protection
Battery Protection	Over-Current / Over-Voltage / Short Circuit / Under-Voltage / Over-Temperature
Transport	UN38.3 (tested) ; UN3480 as applicable
Certificates	CE / CB
Inverter Protocols Supported	Luxpower / Solis / Sofar / Megarevo / Deye / SRNE / Sol-Ark / Sunsynk Growatt / Afore / Victron / Voltronic / MUST / GOSPOWER / Techfine

CFE ESS Co., Ltd.

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