

Residential ESS

CFE-LUXAR-16



Outdoor-Grade Protection

· IP65 + C5 Anti-Corrosion design, dustproof, waterproof, and salt-spray resistant for all-weather reliability in coastal and industrial environments.



Long Lifespan & Solid Warranty

· 8,000-cycle design life, backed by a 10-year warranty for maximum long-term value.



Intuitive User Experience

· HD LCD interface for real-time status monitoring, energy data display, and system alerts.



AI-Enhanced Performance & Safety

· Smart BMS with federated learning for efficient cell balancing, plus proprietary AI-driven active safety with independent aerosol fire suppression.



Ultra-Slim & Space-Saving

· Only 156 mm thick, wall-mount design for seamless integration and minimal footprint.



Scalable & Compatible

· Supports up to 8 units in parallel, compatible with major inverter brands and communication protocols.

Model	CFE-LUXAR-16
Total Energy	16.08 kWh
Usable Energy	14.47 kWh
Size (W × D × H)	564 × 156 × 960 mm
Weight	128 kg
Nominal Voltage	51.2 V
Voltage Range	48 – 56 V
Max. Discharge Power	10 kW
Communication Interfaces	CAN / RS485
Parallel Support (Maximum)	Up to 8 Units in Parallel
Protection Mode	Comprehensive Safety Protections
Battery Type	LFP (LiFePO4)
Capacity	314 Ah
IP Level	IP65 with C5 corrosion protection (ISO 12944)
Battery Protection	Over-Current / Over-Voltage / Short Circuit / Under-Voltage / Over-Temperature
Protective Class	I
Charge Operating Temperature	-10 to 70 °C
Discharge Operating Temperature	-20 to 70 °C
Humidity	0 – 95% RH (non-condensing)
Altitude	≤2000m
Installation Method	Floor Standing
Cooling Type	Natural Convection
Warranty & Cycle Life	10-year warranty; 8,000-cycle design life (conditions apply). (@25 ± 2 °C, 0.5C / 0.5C, 80% DoD)
Display	SoC status indicator (LCD)
Transport	UN38.3 (tested); UN3480 as applicable
Certificates	CE / CB
Inverter Protocols Supported	Pylontech / Growatt / SRNE / Deye / Megarevo / Techfine / Goodwe / CVTE Luxpower / Must

CFE ESS Co., Ltd.

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