








LITHIUM IRON PHOSPHATE BATTERY

ELFP-25V340Ah

8.8 kWh • 25.6V

- 8.8 High energy capacity of 8.8 kWh with 340Ah maximum capacity for long-duration backup power.
-  Built-in advanced BMS with overcharge, over-discharge, over-current, short-circuit and temperature protection.
-  Supports parallel connection of up to 16 units for scalable energy storage systems.
-  Long cycle life: ≥6000 cycles at 100% DOD and ≥8000 cycles at 70% DOD.
-  RS485 / CAN / WiFi / Bluetooth communication interfaces for smart monitoring.
-  15–20 years typical service life with excellent thermal stability and safety.

Technical Data

ELFP-25V340Ah

ELECTRICAL PARAMETERS

Nominal Voltage	25.6V
Nominal Capacity	314Ah
Maximum Capacity	340Ah
Nominal Energy	8 kWh
Maximum Energy	8.8 kWh
Cycle Life (100% DOD)	≥ 6000 Cycles
Cycle Life (70% DOD)	≥ 8000 Cycles
Charge Voltage	27.6 ± 0.2V
Discharge Cut-off Voltage	23.2 ± 0.2V
Standard Charge Current	125A
Continuous Discharge Current	125A

ENVIRONMENTAL PARAMETERS

Charge Temperature	0 ~ 55°C
Discharge Temperature	-20 ~ 60°C
Storage Temperature	-10 ~ 55°C
Humidity	≤ 85% RH

PROTECTION & FEATURES

Battery Management System	Built-in Advanced BMS
Protections	Overcharge, Over-discharge, Over-current, Short-circuit, Temperature
Parallel Connection	Up to 16 units
Communication	RS485 / CAN / WiFi / Bluetooth
Expected Service Life	15–20 Years

GENERAL DATA

Battery Chemistry	LiFePO ₄ (Lithium Iron Phosphate)
Design	Maintenance-free, High Safety

WARNING:

- Do not short-circuit the battery terminals.
- Do not expose to fire or high temperatures.
- Do not puncture, crush, or disassemble.
- Do not use if swollen, leaking, or damaged.
- Charge only with compatible approved charger/inverter.

