



LFM2000 Pro

All-in-one

INTRODUCTION

The LFM2000 Pro Battery combines stackable and all-in-one design allows for easy integration into various spaces, adapting to your specific energy needs. It supports dynamic electricity pricing and real-time power management, while its AC-input charging enables reliable grid-based backup or peak-shaving operation. It's powered by AI-driven insights that optimize charging schedules, predict maintenance needs, and enable imbalance-market trading.

HIGHLIGHT

- Plug and Play
- Expandable Capacity
- Energy Smart Home
- Imbalance Market Trading
- AI-powered System

Specification

Battery Data	
Capacity	Host battery: 2048Wh Expansion battery: Max. 5x 2048Wh Total capacity: Max. 12288Wh
Voltage Range	43.2 V - 57.6 V
Rated Voltage	51.2 V/40 Ah
Life Cycle (Times)	> 6000 (25°C)
Battery Type	LiFePO4
PV Input	
Input Power	4*650 W
Input Voltage	16 V - 60 V
Max. Input Current	16±0.5 A
Number of MPPT	4
Grid-tied (AC)	
Grid-tied Input Power	2500 W max.
Grid-tied Output Power	Rated power: 800 W; 2500 W max.
Output Voltage Range	176~264 VAC
AC Frequency	50 Hz/60 Hz
Max. Output Current	11 A
Power Factor (Adjustable)	> 0.99 default 0.9 leading...0.9 lagging
Bypass (AC)	
Max. AC Output Power (On-grid)	Rated power: 2500W
Max. AC Output Power (Off-grid)	1800 W(single device); 2500 W(with extension pack)
Max. AC Input Power	2500 W
Backup Output Peak	200% 2s
EPS Switching Time	< 10ms
Environmental and Mechanical	
Communication	Wi-Fi & Bluetooth LE; Ethernet; RS485
Charging Temperature Range	-20°C to +50°C (heating film)
Discharging Temperature Range	-20°C to +55°C
Operating Humidity	≤ 85%RH (non-condensation)
Storage Humidity	10% - 85%RH (non-condensation)
Enclosure Rating	IP65
Cooling Mode	Natural convection
Efficiency	
Max. Output Efficiency	94.8%
MPPT Efficiency	99.5%
Battery Charge Efficiency	94.5%