



Lyra 2500 Pro



INTRODUCTION

The Lyra 2500 Pro enhances the all-in-one design with four MPPT inputs, making it ideal for balcony solar setups or RV living. Unlike industrial-looking battery systems, its sleek home-appliance design fits naturally into any indoor environment. It combines seamless solar charging with AC-input capabilities for flexible grid backup and peak-shaving. Powered by AI-driven insights, it optimizes charging schedules, predicts maintenance needs, and supports dynamic pricing and imbalance-market trading-bringing elegant, intelligent energy management wherever you need it.

HIGHLIGHT

- Compatible With All Micro-inverters
- Supports parallel operation
- Energy Smart Home
- Plug and play, power anywhere
- AI-powered System
- Imbalance Market Trading

Specification

Model	CME06-2BM254	CME06-2BM254-08
Battery Data		
Capacity	2560 Wh	
Voltage Range	21.6 V - 28.8 V	
Rated Voltage/Capacity	25.6 V/100 Ah	
Life Cycle (Times)	> 6000 (25°C)	
Battery Type	LiFePO4	
PV Data		
Input Power	4*600 W	
Input Voltage	16 V - 60 V	
Max. Input Current	16 A	
Number of MPPT	4	
On-grid Teminal (AC)		
Input Power	Max. 1500 W	
Output Power	1500 W	800 W
Output Voltage Range	230VAC	
AC Frequency	50 Hz	
Max. Input Current	8 A	
Power Factor	0.8 lagging - 0.8 leading	
Off-grid Teminal (AC)		
Rated Output Power	Single-unit: 1500 W; Parallel-unit: 2400 W	
AC Output Current	Max. 8 A	
Output Voltage /Frequency	230 VAC/50 Hz	
Backup Output Peak	3000 W	
EPS Switching Time	≤ 10 ms	
Environmental and Mechanical		
Communication	Wi-Fi & Bluetooth LE; RS485	
Storage Temperature Range	-20°C to +55°C	
Operating 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	
Dimensions	445±2 mm × 260±2 mm × 250±2 mm	
Weight	28.5±0.5 kg	
Warranty	10 Years	
Efficiency		
Max. Output Efficiency	94.8%	
Battery Charge Efficiency	94.5%	