

# 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

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 Terminal (AC)	
Input Power	Max. 1500 W
Output Power	Rated 800W; Max. 1500 W
Output Voltage Range	230VAC
AC Frequency	50 Hz
Max. Input Current	8 A
Power Factor	0.8 lagging - 0.8 leading
Off-grid Terminal (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	200% 1.5s
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	440 mm × 260 mm × 252 mm
Weight	28.5±0.5 kg
Warranty	10 Years
Efficiency	
Max. Output Efficiency	94.8%
Battery Charge Efficiency	94.5%