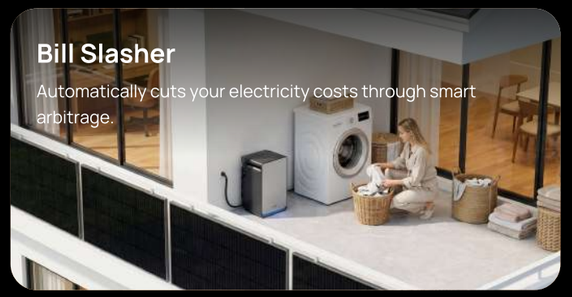
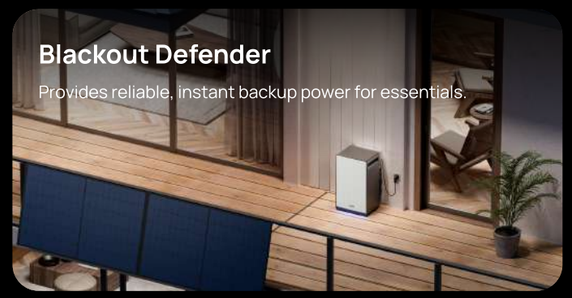
Versatile for Every Home









Specification

Capacity	2560Wh/5120Wh(in parallel)	Output Voltage/Frequency	230V/50Hz
AC Output/on-grid	800W (Max. 1500W)	Operating Temperature	-20-55°C
PV Input	2400W, 4 MPPT	Diemension(W*H*D)	260*440*252mm
Life Cycles	>6000 (25°C)	Weight	28.5kg
Ingress Protection	IP65	Warranty	10-year
AC Output/off-grid	1500W/2400W(in parallel)		

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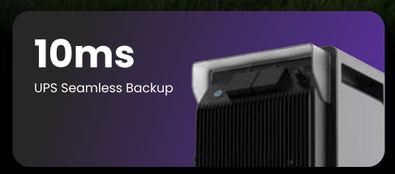
Works with tuya

Lyra 2500 Pro
All-in-one

Plug-in Balcony Energy Storage

2400W PV Input | 1500W Inverter | 2560Wh LFP Battery

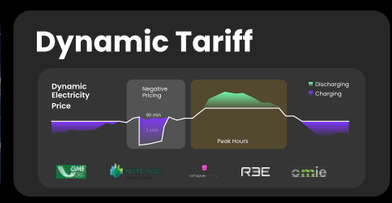




















***Calculation Summary**

System configuration: 2000W PV + 2.56kWh Lyra 2500 Pro

PV Yield: 2275 kWh

Grid Price: €0.40/kWh

Peak/Valley Price Difference: €0.20/kWh

1. Increased Self-Consumption Savings AI energy management + Storage raises self-consumption from 20% to 98%.

Annual Saving: 2000*0.4*(98%-20%)=€624

2. Peak Shaving & Time-of-Use (ToU) Gains Arbitrage via 2.56kWh battery (est. 300 cycles/year).

Annual Saving: 2.56*300*0.2=€153.60

Unmatched Power — Compact & High-Performance

Massive Output

1500W continuous / 3000W peak power to run high-demand appliances effortlessly.



1500W Rapid Recharge

0–80% SoC in 90 mins. Designed for short off-peak and negative-price windows, increasing daily energy throughput and accelerating RoI.



High-Density Storage

2560Wh long-lasting LFP battery (89.8 Wh/kg) in a lightweight, space-saving frame.



3900W Hybrid Solar Input

Bridge 2400W DC and 1500W AC-coupled solar for a combined 3900W iutput—engineered to power large homes with high-energy demands.



Seamless Retrofit — Designed for Universal Compatibility

Solar Retrofit

100% microinverter compatibility for a plug-and-play balcony solar retrofit.



Scalable Power

Parallel 2 units to reach 5120Wh / 2400W for total energy independence.



Dual AC Management

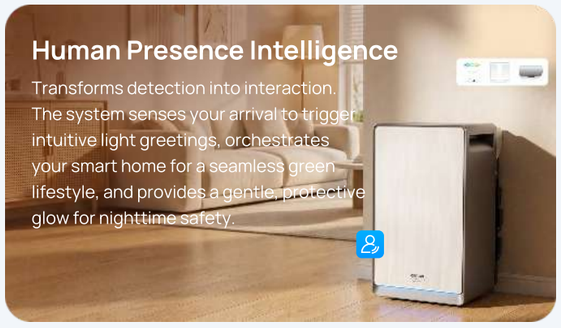
Dedicated sockets to prioritize backup loads or optimize daily appliance savings, even while the plug-in solar occupied one of it.



Fits Anywhere — Style Meets Space

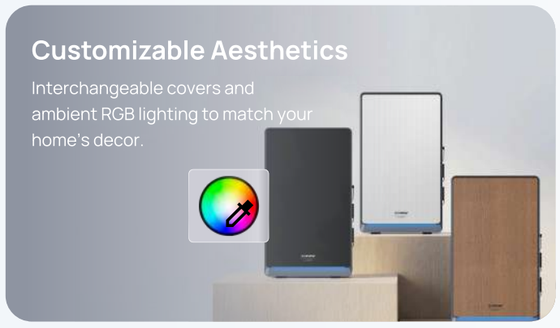
Human Presence Intelligence

Transforms detection into interaction. The system senses your arrival to trigger intuitive light greetings, orchestrates your smart home for a seamless green lifestyle, and provides a gentle, protective glow for nighttime safety.



Customizable Aesthetics

Interchangeable covers and ambient RGB lighting to match your home's decor.



Three Pillars of Intelligent Power Management

Onboard with Ease

An interactive, step-by-step onboarding journey that ensures complete functional mastery and full regulatory compliance.



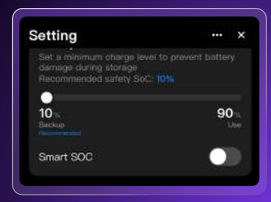
Intuitive insights

Sankey diagrams clearly visualize the real-time source and distribution of every kWh in your home.



Smart SoC

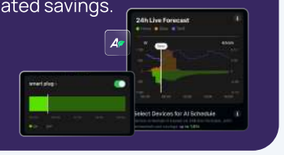
Automates reserve management to maximize daily energy utilization while proactively protecting long-term battery health.



Three Intelligent Operation Modes

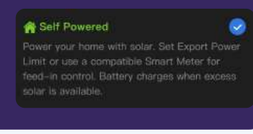
Smart AI

Optimizes energy flow based on dynamic pricing, weather, and solar data; integrates with Tuya devices for automated savings.



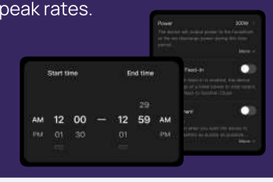
Self-Powered

Prioritizes storing energy for nighttime use and automatically diverts surplus solar to smart loads like EV chargers, heat pumps.



Manual ToU

Offers granular scheduling to customize energy usage based on off-peak rates.

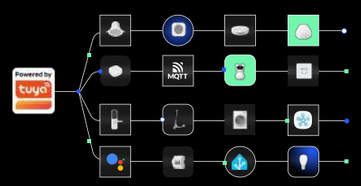


Ecosystem & AI HEMS

Dynamic Tariff: 890+ Energy Providers



Vast Ecosystem



AI Energy Management

Dynamic Tariff · AI Energy Assistant · AI Energy Schedule

