

All-in-One Micro Grid ESS

BM 2400 PRO

- Wireless parallel connection for a scalable home energy system
- Flexible multi-unit setup
- AC-coupled solar compatibility
- Peak-valley energy optimization
- Plug & play installation
- AI-based energy management
- Phase Detection




LEVOCELL



Wireless parallel connection
1 Main Unit + 3 Expansion Units



Feed-in Power **800W**, Up to **2.4kW** Max
Zero Feed-in



AI
Powered

2.4kWh Scalable up to
12kWh Seamless Connection



Multi-ecosystem compatible
AI-powered home energy management system



Bi-directional Fast Charging
2.4kW for off-grid power needs



IP65
Water and Dust Resistance



4 MPPT
4kWp



Specifications

Model NO.	BM2400 PRO
AC Output (On-grid)	
Nominal Output Power	0.8kW
Nominal Output Current	3.48A
Max. Output Power	2.4kW
Max. Output Current	10.43A
Nominal Output Voltage	230V
Nominal Grid Erequency	50Hz±5%
Input	
AC Input Charging	AC230V 2400W Max
Solar Input Charging	4*PV18~60V 1000Wp Max (4000Wp in total)
Efficiency	
Inverter Efficiency	≥90%
MPPT Efficiency	≥97%
Battery Conversion Efficiency	≥85%
AC Output (Backup)	
Nominal Output Power	2.4kW
Peak Output Current (1 second)	10.43A
Nominal Output Voltage	230V
Nominal Grid Erequency	50Hz±2%
Total Voltage Harmonic Distortion	THDv < 3%
Interruption Time of Backup Switch	≤10MS
Battery Data	
Main Unit Capacity	No Battery
Battery Module Model	B2400
Battery Module Capacity	2400Wh
Number of Modules per Main Unit	1~5PCS
Nominal Voltage of Battery Module	DC48V
Protection	
Safety Protection Feature	Overvoltage/Undervoltage/Overcurrent/Overload/Short-Circuit/Overheating Protection Insulation Monitoring, Residual Current Monitoring, Anti-islanding Protection, Type II DC/AC Surge Protection
Open Ecosystem Integration Support	
Matching Ecological Products	Smart Meter, Smart Plug, Infrared Meter
Third-party Ecological Products	Shelly smart meter, Shelly smart plug, Shelly relay, Tibber Pulse infrared meter, Tibber dynamic electricity price direct acquisition, EverHome smart meter, HomeWizard P1 Meter
General Data	
Dimensions (L*W*H)	Main Unit: 440*305*165mm / Battery Pack: 440*305*220mm
N.W.	Main Unit: ≈14.215kg Battery Pack: ≈25.305kg
G.W.	Main Unit: ≈17.18kg Battery Pack: ≈27.77kg
Storage Temperature Range	-20°C~60°C
Operating Temperature Range	-20°C~55°C
Relative Humidity Range	0~60%RH
Cooling	Natural Cooling
Standby Power Consumption	≤16W
Ingress Protection Rating	IP65
Display	LED+APP
Communication	WiFi/BT/Ethernet
Standard Compliance	
EMC+LVD	EN62109-1/-2/2100/65EU/CE-EMC+LVD
Feed Standard	VDE4105:2018 VDE 0124:2020/G98:2022/EN50549-1:2019/EN50549-10:2022