KILOVANT

BALCONY ENERGY STORAGE

Solar Hub EMS ESH1600 | Power Box ESL1024

Optional storage for every balcony kit. The Solar Hub EMS is the system's brain: it sends solar power to the home or to the Power Box as needed, and the app lets you decide when to store and when to use it. Stack up to six 1024Wh LiFePO4 Power Boxes for 6144Wh, enough to cover a household's daily use.



ESH1600



ESL1024

Intelligent EMS · 98% Max Efficiency · IP65 Protection · Smart App Control · Up to 6144Wh · LiFePO4, 6000 Cycles

DATASHEET

Solar Hub EMS	ESH1600
MPPT Number	2
Start-up Input Voltage	18V
Max. Input Power	800W ×2
Max. Input Voltage	60V
Max. Continuous DC Output	800W ×2
Max. PV Input Current	25A
Max. Efficiency	98%
Input Voltage PV1 / PV2	12–60V
Output Voltage DC1 / DC2	18–55V
Output Current DC1 / DC2	28A max
Communication	Wi-Fi / Bluetooth
Dimensions (W×D×H)	320 × 200 × 55mm
Weight	3.2kg
Protection · Warranty	IP65 · 10 years
Standards	2015/863/EU (RoHS); EN 62509:2011; ETSI EN 301 489-17; ETSI EN 300 328; ETSI EN 300 440

Power Box Battery	ESL1024
Nominal Capacity	1024Wh
Nominal Voltage	51.2V
Working Voltage Range	40–58.4V
Battery Type	LiFePO4 (A+ grade cells)
Max. Units in Parallel	6 (6144Wh)
Cycle Life	6000 cycles
Communication	CAN / RS-485
Operating Temperature	-20°C ~ 60°C
Dimensions (W×D×H)	320 × 200 × 196mm
Weight	9.3kg
Protection · Cooling	IP65 · Natural cooling, metal shell
Warranty	5 years
Standards	2015/863/EU (RoHS); EN IEC 62368-1:2020+A11:2020; EMC EN IEC 61000-3-2:2019

On-grid, off-grid and outdoor use. Specifications are subject to change without notice.