

ESS & Smart Home Energy Storage

Residential energy storage from a 5 kWh wall-mounted unit to 20 kWh cabinet stacking in LiFePO₄ with more than 5,000 cycles; industrial and commercial modular racks at 38.4 V / 76.8 V with active / forced-air cooling; smart home power packs.

System overview

Segment	Configuration	Highlights
Residential ESS	5 kWh wall-mounted → 20 kWh cabinet stacking	LiFePO ₄ · > 5,000 cycles
Industrial / Commercial	38.4 V / 76.8 V modular battery racks	Active / forced-air cooling
Smart Home	Power packs for tools, curtain motors, appliances	Compact integrated BMS

Applications

- ◆ Home backup & self-consumption optimisation
- ◆ Commercial peak shaving & solar synchronisation
- ◆ Low-voltage smart home power distribution

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One-stop power solution: cell selection & grading, custom circuit & structural design, module & pack assembly, BMS integration, charger & connector accessories. Battery packs with non-Chinese components and cells (Japan / Korea / Malaysia cells, electronics assembled in Poland) available for supply-chain-sensitive projects.

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