Hearth
Low-Voltage Home ESS(5kWh)

Residential Energy Storage System



Model

ZT-RESS-LV-WM-5K-G7

Ultra-long Cycle Life:
LFP lithium-iron-phosphate cells, ≥8000 cycles @80% DOD, outperforming mainstream industry standards for extended service life

Retrofit-ready RS485/CAN communication, optional Bluetooth, compatible with micro-inverters

Robust output: 50A continuous charge/discharge, 100A peak current for high-power home loads

Full temperature-humidity management, wide operating range, IP21 indoor protection for home safety

Flexible wall-mount / floor-standing installation for optimal space usage

Real-time battery health monitoring & remote fault diagnosis

Model	ZT-RESS-LV-WM-5K-G7
Battery Type	LFP
Cell Capacity	≥100.0 Ah
Capacity	5.12 kWh
Nominal Voltage	51.2 V
Max. Charge Current	50 A
Max. Discharge Current	50 A
Peak Current	100 A
Communication	CAN / RS485 (Bluetooth Compatibility)
Dimensions	418 × 170.5 × 667 mm
Weight	47 ± 2 kg
Operating Temperature	Charge: 0 ~ 55 °C Discharge: −20 ~ 55 °C
Storage Temperature	0 ~ 25℃（Storage life: 10–12 months） -5 ~ 35℃（Storage life: 2–3 months）
Relative Humidity	85±25%
Max. Operating Altitude	4000 m，Power derating required above 2000 m
Cooling Method	Natural Convection
Protection Rating	IP21
Installation Method	Wall-mounted
Cycle Life	≥8000 cycles @ 80% DOD

All specifications are for reference only. Dimensions and weight are approximate and subject to change as product design is finalized.

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