

E-BANK

All-Scenario Micro All-in-One ESS

2.5 kW | 5 kWh | AC-Coupled

2.5 kW | 5 kWh | Hybrid PV



ES-Grade LFP Battery
Utilize 314Ah LFP battery guaranteeing energy station grade safety and duration



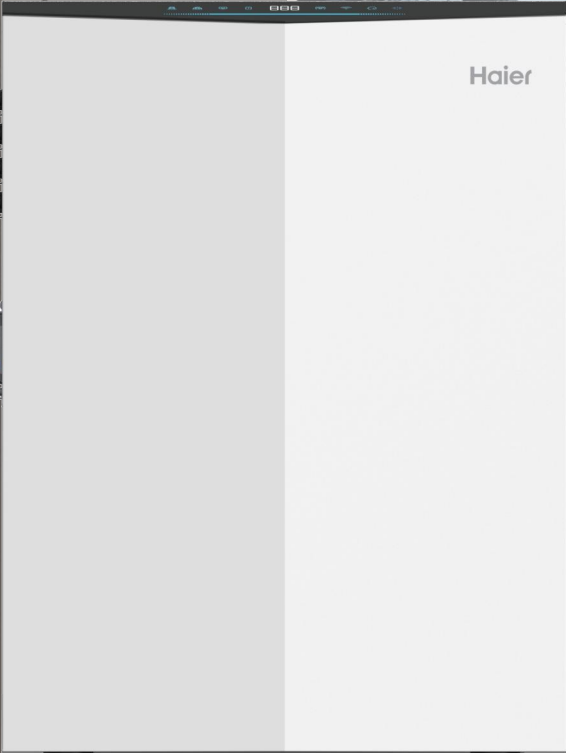
Minimal Installation
Plug-and-play deployment with AI self-networking and wire-free smart metering



Multi-Layer Safety Protection
24-channel temperature monitoring, glass-sealed NTC sensors, and hardware circuit-breaker protection



Smart Saving
Support dynamic tariff/VPP, AI-driven optimization, and remote OTA upgrades



Haier



Model	HVA-2.5/5D2W
Basic Parameters	
Maximum PV Input Power	3.2kW
Battery Rated Capacity	5.02kWh
Rated AC Output Power	800W/2.5 kW (On-grid / Off-grid)
Overall Dimensions (W×H×D)	530**704**240mm
Overall Weight	67kg ± 3%
Cooling Method	Natural Cooling
Ingress Protection Rating	IP65 (Complete System)
Protection Level	I
Overvoltage/Voltage Withstand Level	II(PV), III(AC)
Design Service Life	10 years
PV Input Side (DC)	
Maximum PV Input Power	3.2kW
Number of MPPT	4
Maximum Power per MPPT	800W
Maximum Input Current per MPPT	22A
Short-Circuit Current per MPPT	27.5A
MPPT Operating Voltage Range	20~60V
Maximum DC Input Voltage	60V
MPPT Tracking Efficiency	>99.9%
Maximum Charging Efficiency (Single PV to Battery)	≥96%
Battery Side (DC)	
Battery Type	LiFePO ₄
Cell Rated Capacity	314Ah
Battery Rated Capacity	5.02kWh
Battery Rated Voltage	16V
Battery Operating Voltage Range	15~ 17.5V
Maximum Charge / Discharge Power	2.5kW
Recommended Charge / Discharge Current	157A/157A (25°C)
Maximum Charge / Discharge Current	172A/180A (25°C)
Charge / Discharge Efficiency	≥94%
Usable Depth of Discharge (DoD)	90%
Cycle Life	>10000 cycles
Grid Side (AC) - Input/Output	
Rated Grid Voltage	220/ 230V (L/N/PE)
Rated Grid Frequency	50/ 60Hz
Rated Input Apparent Power	3.2kVA
Rated Output Apparent Power	2.5kVA/800VA
Maximum Input / Output Current	16A
Power Factor Range	0.8 (leading) ~ 0.8 (lagging)
THDi	<3%
EPS Output	
Rated Output Voltage	220/230V (L/N/PE)
Rated Output Frequency	50/ 60Hz
Rated Output Apparent Power	2.5kVA
Maximum Output Current	16A
THDu (Linear Load)	<3%
Communication	
Communication Interfaces	Wi-Fi, Bluetooth, RS485, CAN
Remote Upgrade	OTA
Environmental Adaptability	
Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +60°C
Operating Humidity	0-95% RH (Non-condensing, 25±2°C)
Operating Altitude	≤4000 meters (Derated operation when >2000 meters)
Maximum Operating Noise	<30 dB
Safety & Certification	
Safety	IEC 62619; IEC 62109-1; IEC 62109-2; IEC 62477-1
EMC	IEC 61000; IEC 62920
Radio Equipment Directive	EN 300328 V2.2.2; EN 301489-1 V2.2.3; EN 301489-17 V3.2.4; EN 55011; EN 18031-1; EN 18031-2
Shipping Standards	UN38.3
Grid Connection Standards	VDE 4105; EN 50549-1; EN 50549-10
Material Safety	RoHS; REACH
Regulations	EU 2023/1542