E-Tower

Simple Smart Safe

All-in-one Residential ESS (LV)

Easy installation, smart power distribution



All-in-one
PCS , battery and distribution box , all-in-one design

Quick installation
Modular design , stackable installation , plug and play

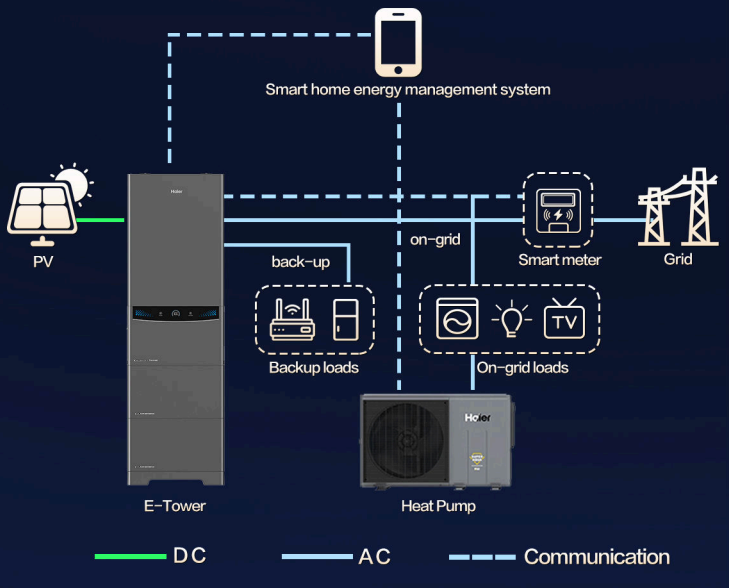
Smart Power Distribution
Safe with PV DC arc fault detection and RCD 30mA included

Extremely Safe
IP 65 , 4-layer cell level protection and 6-layer system level protection

Harsh environment
-10℃ charge

High Yields
Supports 1.6 DC : AC ratio to connect more PV capacity

Energy Management System



Solution Advantages

One App for All
- The APP provides unified management of equipment such as PV, ESS and the heat pump. There is no need to install multiple applications. This offers convenience and efficiency for final users.

Bill Saving
- Through intelligent scheduling and management, the configuration could be optimized to reduce peak price energy comsuption.

Intelligent Regulation
- On sunny days: Maximize the utilization of photovoltaic power generation for heat pump to store heat.
- On cloudy, rainy, snowy days or during power outages: Intelligent switching occurs, providing complementary power supply.

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System Parameters

Item	Parameter
System model	HA1L- 5K10A1
Nominal energy	10 kWh
Nominal energy	2
Cycle life	6000 times (25 °C, 0.5 C / 0.5 C, 90% DOD)
Ambient temperaturet	Charging: [-10, 50] °C
	Discharging: [-20, 50] °C
Working humidity	10 % ~ 90 % RH
Storage temperature	[-30, 60] °C
Storage humidity	10 % ~ 90 % RH
Cooling	Natural cooling
Dimensions(W*H*D, mm)	572.5 * 247.8 * 1758.8
Working altitude	< 4000 m (derate over 2000 m)
Enclosure type	IP 65
Protection class	I
Warranty	10 years (details in warranty agreement)
Certification	IEC62619, CE, UN38.3, UL1973, UL95540, FCC
Battery Module	
Item	Parameter
Battery model	B051100P03-H
Battery type	LFP
Compatible with cell models	SBP-01-1000 IFP50160116A-100Ah
Rated voltage	51.2 V
Connection	1P16S
Rated energy	5 kWh
Working voltage range	44.8 V~55.2 V
Rated charging / Discharging current	50 A
Max. charging / Discharging current	100 A
Dimensions (W*H*D, mm)	573mm * 1844mm * 263mm
Hybrid Inverter	
Technical data	H1PL-1J5K-EU
PV string input data	
Max.PV input power	8000 W
PV input voltage range	330 V (90 V ~ 520 V)
Full load MPPT voltage range	175 ~ 520 V
PV input current	16 A / 16 A
No.of MPPT tracker	2 / 2
Output AC (Back-up)	
Rated output power	5 kW
Max.output current	31.8 A
Rated output voltage	1 / N / PE, 220 / 230 V
Output frequency	50 Hz / 60 Hz
Output THDv (@linear load)	2 %
Output AC (Grid side)	
Rated output power	5 kW
Rated output voltage	1 / N / PE, 220 / 230 V
Voltage range of grid	187 - 253 V
Frequency of grid	50 Hz / 60 Hz (45 - 55 Hz / 55 - 65 Hz)
Rated output current of grid	22.7A / 21.7A
Max. output current	22.7 A / 21.7 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
Max. output current	< 2 %

Customer Information :

Address :

Telephone :