LiHOME

Residential Energy Storage

Modular design for better use of sun.

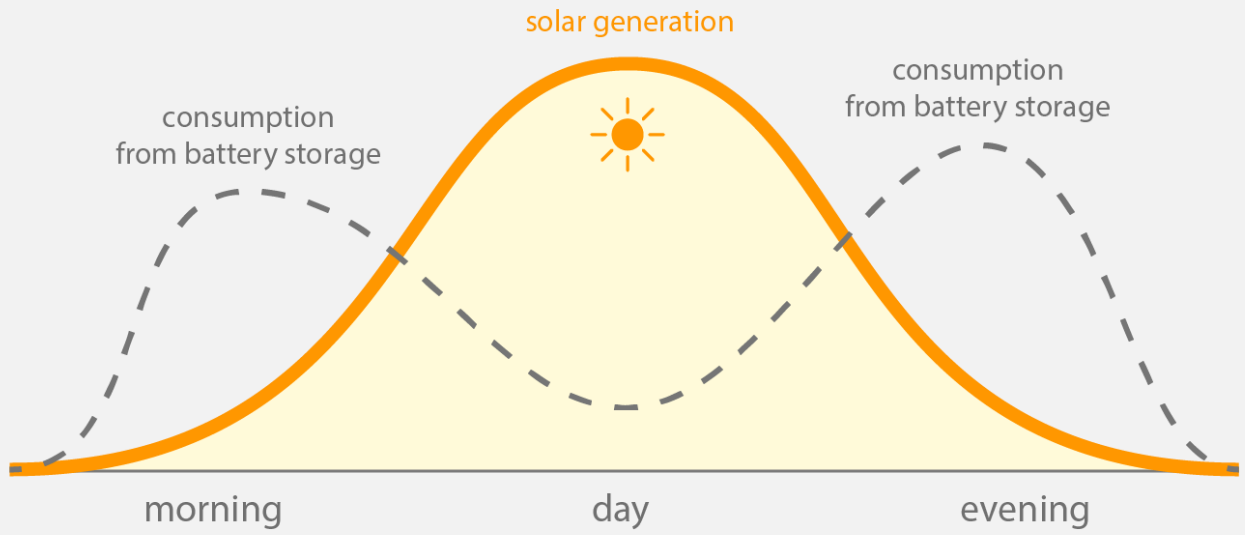
WHY HOME STORAGE?

The photovoltaic panels produce the maximum amount of the energy during the daytime, when the energy consumption is usually lower (because most of the people is at work at that time).

On the contrary, in the morning and in the evening, the consumption is higher.

LiHome makes energy available where and when you need: a “tank” of energy is the must in order to increase self-consumption and energy self-sufficiency, in fact it solves the trouble about cyclicality and unpredictability of renewables.

Our system can be sized in a modular way for different usages and can store from 5 kWh up to 35 kWh based on your requirements.



USE ALL OF YOUR SOLAR ENERGY

LiHome provides reliability for your home with its industry leading longevity.

CUT BACK ON YOUR ELECTRICITY BILLS

Allows you to place it anywhere you want, both indoors and outdoors.

WHY CHOSE LiHOME?

RELIABLE PERFORMANCE

LiHome provides reliability for your home with its industry leading longevity.

COMPACT SIZE

Allows you to place it anywhere you want, both indoors and outdoors.

EXPANDABLE

LiHome can be increased at your need.

SAFETY

The safety of Lihome is proven in ESS markets by FAAM tests.

LiHOME FEATURES

- ✓ Overvoltage
- ✓ Undervoltage
- ✓ Overtemperature
- ✓ RS-485 communication
- ✓ Wi-Fi communication by a proprietary App on both IOS or Android (at request)
- ✓ CAN Bus 2.0 communication for the BMS
- ✓ Pre-charging system
- ✓ High number of cycles (> 4000 cycles)
- ✓ Energy saving (efficiency > 98%)
- ✓ High energy density and power
- ✓ Zero emissions

INVERTER FEATURES

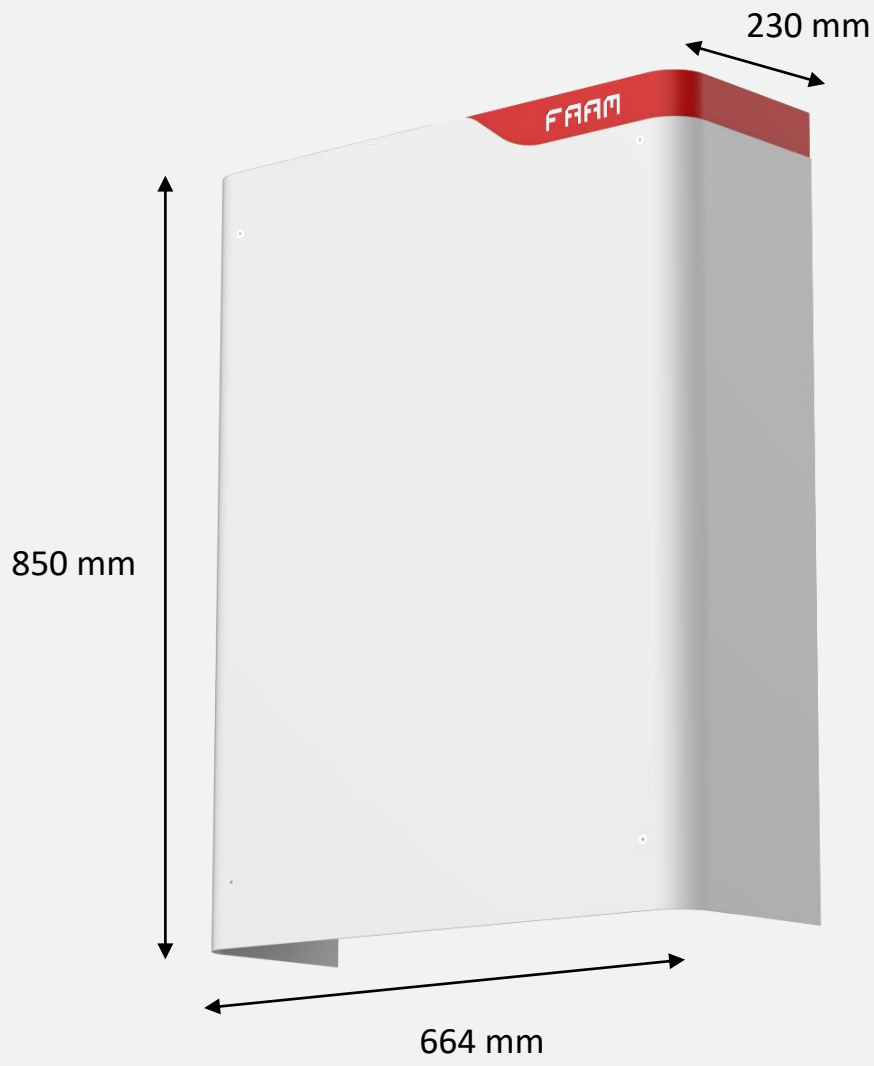
- ✓ Dual MPPT system
- ✓ RS-485 communication for the wattmeter
- ✓ Wi-Fi and Ethernet communication
- ✓ CAN Bus 2.0 communication for the BMS
- ✓ Pre-charging system at the battery input
- ✓ Relay for the neutral to earth connection for critical loads in type TT installation
- ✓ Suitable for indoor and outdoor installation (IP65)
- ✓ Back-up functionality available for self-consumption installations.

LiHOME DIMENSION AND WEIGHT

LiHome has been designed in order to allow the easiest istallation possible, with its IP54 protection level, can be placed indoor or outdoor and, based on the capacity required, each module can be stacked with others or placed side by side.

Weight of 5,12KWh LiHome – 69Kg

Weight of 10,24Kwh LiHome – 105Kg



CONFIGURATIONS

Rated voltage: **230 V**

Rated power: **3 kW / 6 kW**

Battery chemistery: **LiFePO4**

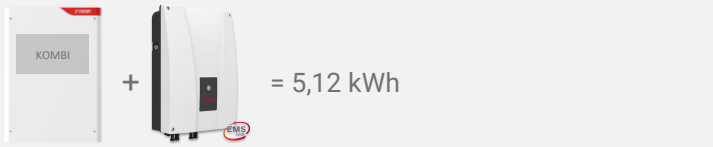
Operating: **-20 +45°C**

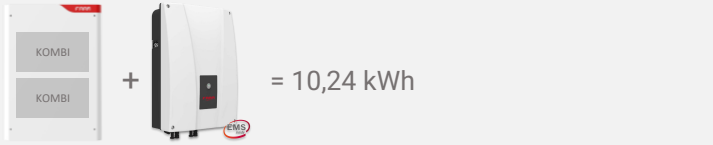
Life Cycle: **>4000**

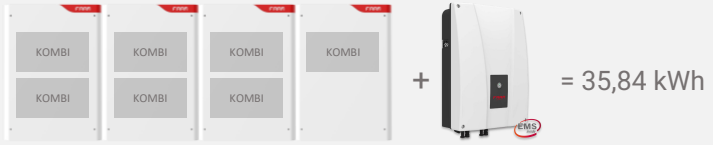
Cooling: **Natural / Forced Ventilation**

Installation: **Floor / Wall Mount**

Step: **5,12 kWh**







DATASHEET

LiHOME

Technical Specificaion	LiHome 5,12 kWh	LiHome 10,24 kWh	LiHome 15,36 kWh	LiHome 20,48 kWh	LiHome 25,60 kWh	LiHome 30,72 kWh	LiHome 35,84 kWh
							

CONFIGURATION

Number of Master 5,12 kWh	1	–	–	–	–	–	–
Number of Master 10,24 kWh	–	1	1	1	1	1	1
Number of Slave 5,12 kWh	–	–	1	–	1	–	1
Number of Slave 10,24 kWh	–	–	–	1	1	2	2

INVERTER PERFORMANCE (INGETEAM SUN STORAGE TL M)

Grid input (AC)							
Rated Power	**3 kW**	**3KW** **6kW**	**3KW** **6kW**	**3KW** **6kW**	**3KW** **6kW**	**3KW** **6kW**	**3KW** **6kW**
Rated voltage	230 V	230 V	230 V	230 V	230 V	230 V	230 V
Voltage range	172 - 264 V	172 - 264 V	172 - 264 V	172 - 264 V	172 - 264 V	172 - 264 V	172 - 264 V
Nominal frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Frequency range	40 - 70 Hz	40 - 70 Hz	40 - 70 Hz	40 - 70 Hz	40 - 70 Hz	40 - 70 Hz	40 - 70 Hz
Critical load output (AC)							
Rated voltage	220 - 240 V	220 - 240 V	220 - 240 V	220 - 240 V	220 - 240 V	220 - 240 V	220 - 240 V
Frequency range	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Battery input (DC)							
Voltage range	40 - 450 V	40 - 450 V	40 - 450 V	40 - 450 V	40 - 450 V	40 - 450 V	40 - 450 V
Communication with ion-lithium batteries	CAN bus 2.0	CAN bus 2.0	CAN bus 2.0	CAN bus 2.0	CAN bus 2.0	CAN bus 2.0	CAN bus 2.0
Cooling system							
Type	Forced ventilation	Forced ventilation	Forced ventilation	Forced ventilation	Forced ventilation	Forced ventilation	Forced ventilation
Air flow	45 m3/h	45 m3/h	45 m3/h	45 m3/h	45 m3/h	45 m3/h	45 m^3/h
Operating temperature	-20 °C ~ +65 °C	-20 °C ~ +65 °C	-20 °C ~ +65 °C	-20 °C ~ +65 °C	-20 °C ~ +65 °C	-20 °C ~ +65 °C	-20 °C ~ +65 °C
Relative humidity (non-condensing)	4 ~ 100 %	4 ~ 100 %	4 ~ 100 %	4 ~ 100 %	4 ~ 100 %	4 ~ 100 %	4 ~ 100 %
Protection class	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65

BATTERY PERFORMANCE

Battery Chemistery	LFP	LFP	LFP	LFP	LFP	LFP	LFP
Nominal Capacity	100 Ah	100 Ah	100 Ah	100 Ah	100 Ah	100 Ah	100 Ah
Capacity Usable (DoD 80%)	80 Ah	80 Ah	80 Ah	80 Ah	80 Ah	80 Ah	80 Ah
Nominal Energy	5,12 kWh	10,24 kWh	15,36 kWh	20,48 kWh	25,60 kWh	30,72 kWh	35,84 kWh
Energy Usable (DoD 80%)	4,10 kWh	8,19 kWh	12,29 kWh	16,38 kWh	20,48 kWh	24,58 kWh	28,67 kWH
Nominal Voltage	51,2 VDC	102,4 VDC	153,6 VDC	204,8 VDC	256 VDC	307,2 VDC	358,4 VDC
Minimum Voltage (Cut-off)	40 V	80 V	120 V	160 V	200 v	240 v	280 V
Maximum Voltage	57,6 V	115,2 V	172,8 V	230,4 V	288 V	345,6 V	403,2 V
Maximum Continuous Current in Discharge (25°C) (C-Rates)	0.6C	0.6C	0.6C	0.6C	0.6C	0.6C	0.6C
Maximum Continuous Current in Charge (25°C) (C-Rates)	0.3C	0.3C	0.3C	0.3C	0.3C	0.3C	0.3C

GENERAL SPECIFICATION

	Master 5,12 kWh	**Master 10,24 kWh**	**Slave 5,12 kWh**	**Slave 10,24 kWh**
Product dimension (W*D*H)	664 mm x 212 mm x 950 mm	664 mm x 212 mm x 950 mm	664 mm x 212 mm x 950 mm	664 mm x 212 mm x 950 mm
Weight	73 kg	109 kg	73 kg	109 kg
Nominal Voltage	51,2 VDC	102,4 VDC	51,2 VDC	102,4 VDC
Installation	Floor stand or wall mount	Floor stand or wall mount	Floor stand or wall mount	Floor stand or wall mount
Operating temperature	-20 °C + 55 °C	-20 °C + 55 °C	-20 °C + 55 °C	-20 °C + 55 °C
Relative humidity	0% - 60 %	0% - 60 %	0% - 60 %	0% - 60 %
Cooling	Natural convection	Natural convection	Natural convection	Natural convection
Protection rating	IP 45	IP 45	IP 45	IP 45
Waranty	10 years	10 years	10 years	10 years
Compatible inverter				

WIFI CONNECTION

Get real-time and historical data of LiHome. The app works on your iOS and Android phone as well as on your laptop on Windows and Mac, all through an intuitive and clean interface.

Supply your energy saving with us

We are standing by to answer all your questions

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www.faam.com