

The smart residential energy storage system

HOME S | 10 | 15



Key Facts

15

Power in kW

8.4- 156.8

Capacity in kWh

22.5

Integrated PV connection in kWp
and for up to three directions

Benefits

- Intelligent integration of wallboxes, heat pumps and a heating element*
- Self-Consumption Optimization 2.0 with AI-optimized utilization of time-of-use tariffs*
- 3-phase emergency power supply with solar recharging and black-start capability
- Plug-&-Play installation
- All-in-one system featuring a compact high-voltage battery, a flexible DC, AC and hybrid inverter, intelligent energy management FEMS, and service from a single source
- Ready for your Energy Journey: Modularly expandable with battery modules and FEMS apps

* FEMS App Self-Consumption Optimization and FEMS App Grid Optimized Charge included. Further apps optional.

System

Product warranty 10 years



Installation / Ambient conditions	
Ingress Protection	IP55
Operating altitude in m	≤ 2,000
Installation temperature in °C	-20 to +50
Operating temperature in °C*	-20 to +55
Optimal battery operating temperature in °C*	+15 to +30
Max. grid connection in A	120

* Outside of the optimal operating temperature range, the (dis-)charging performance may be reduced.

Certifications and Directives	
Overall system	CE VDE 2510-50
Inverter	VDE 4105:2018-11 TOR Generator Type A 1.1
Battery	UN38.3 IEC62619 EMV (complete)
Other countries	Sweden (registered Rikta Rätt), Netherlands (Synergrid C10/11 planned)

Battery module



Cell technology	Lithium iron phosphate (LiFePO4)
Module weight in kg	29.6
Nominal module capacity in kWh	2.87
Usable module capacity in kWh	2.8
Expandable capacity	Yes
Dimensions (W D H) in mm	506 401 140
Capacity warranty*	12 years or 6,000 cycles

* Find further information in our warranty terms at www.docs.fenecon.de.

Inverter



Product name	Home 6 FINV-6-2-DAH	Home 10 FINV-10-2-DAH	Home 15 FINV-15-2-DAH
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DC connection			
Max. DC input power in kWp	9	15	22.5
MPP-Tracker	2	3	3
Inputs per MPPT	1 (MC4)		
Starting voltage MPPT in V	150		
Max. DC input voltage in V	1,000		
MPPT voltage range in V	120 - 850		
Nominal input voltage in V	620		
Max. effective input current per MPPT in A	16		
Max. short circuit current per MPPT in A	24		
Max. (dis-)charging power in kW	6	10	15

AC connection			
Grid connection	400/380 V, 3L/N/PE, 50/60 Hz		
Max. output current (400 V) in A	8.7	14.5	21.7
Max. input current (400 V) in A	15.7	26.1	26.1
Nominal apparent power output in VA	6,000	10,000	15,000
Max. apparent power output in VA	6,000	10,000	15,000
Max. apparent power of the electricity grid in VA	7,200	12,000	18,000
Cos(Phi)	-0.8 to +0.8		

Emergency power			
Emergency power capability	Yes		
Electrical network configuration	400/380 V, 3L/N/PE, 50/60 Hz		
Loads supplied with emergency power (per phase) in VA	6,000 (2,000)	10,000 (3,333)	15,000 (5,000)
Unbalanced load in VA	2,000	3,333	5,000
Black start capability	Yes		
Solar recharging	Yes		

Efficiency			
Max. efficiency in %	98.2		
Europ. efficiency in %	97.2	97.5	97.5

General specifications			
Dimensions (W D H) in mm	496 221 460		
Weight in kg	23	25	25
DC overvoltage protection	Type 2		
Ripple control receiver inputs	Yes		
Cooling	Natural convection		

System configurations



Battery modules per tower	3	4	5	6	7	8	9	10	11	12	13	14
Nominal capacity in kWh												
1 tower with x modules	8.6	11.5	14.3	17.2	20.1	22.9	25.8	28.7	31.5	34.4	37.3	40.1
2 towers with x modules each						45.9	51.6	57.3	63.1	68.8	74.6	80.3
3 towers with x modules each									94.6	103.2	111.8	120.4
4 towers with x modules each										137.6	149.1	160.6
Effective capacity in kWh*												
1 tower with x modules	8.4	11.2	14.0	16.8	19.6	22.4	25.2	28.0	30.8	33.6	36.4	39.2
2 towers with x modules each						44.8	50.4	56.0	61.6	67.2	72.8	78.4
3 towers with x modules each									92.4	100.8	109.2	117.6
4 towers with x modules each										134.4	145.6	156.8
Nominal power in kW**												
Nom. power in kW (6 kW inv.)	4.0	5.4	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Nom. power in kW (10 kW inv.)	5.4	7.2	9.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Nom. power in kW (15 kW inv.)	5.4	7.2	9.0	10.8	12.5	14.3	15.0	15.0	15.0	15.0	15.0	15.0
Weight in kg												
1 tower with x modules	127	157	187	217	247	277	307	337	367	397	427	457
2 towers with x modules each						554	614	674	734	794	854	914
3 towers with x modules each									1,101	1,191	1,281	1,371
4 towers with x modules each										1,588	1,708	1,828
Height in mm (approx.)												
	834	977	1,120	1,263	1,406	1,549	1,692	1,835	1,978	2,121	2,264	2,407

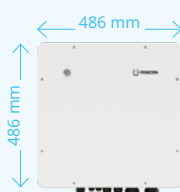
* DC-side at 25 °C and 0.2 C

** Average power at nominal voltage; The actual power depends on factors like state of charge, ambient and cell temperature.

Inverter



AVU (optional)*

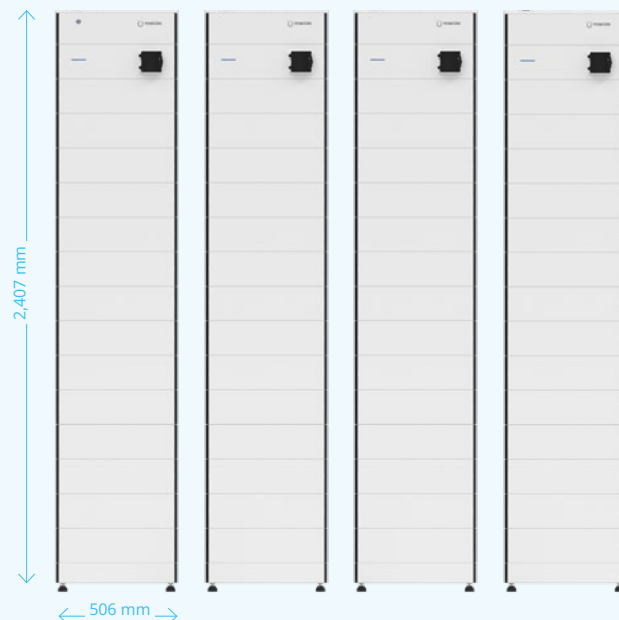


*Compatible with Home 6 & 10 & 15

System variant 1 tower with 3 modules



System variant 4 towers with 14 modules each



FEMS Hardware



Hardware interfaces

Inputs	4 digital inputs
Outputs (FEMS relay board)	3 wet contacts (10 A per channel & metered), 2 dry contacts 1 analog output (0 to 10 V)
Communication between components	RS485 – Modbus RTU / LAN-Modbus TCP

Communication interfaces

Connectivity	LAN
Local interface	Modbus TCP API, REST API (read access, write access optional)
Online interface	Cloud REST API (read access, write access optional)

Software & future capability

Operating system	FEMS, based on OpenEMS (Open Source)
Classification	OpenEMS Ready Gold
Updates	Unlimited, automatic & free of charge
Feed-in management	0% (e.g., outside EEG) up to 100%
Dynamic ripple control receiver	Standard

Advanced charging & discharging

Grid-optimized charging	Standard
Time-of-use tariffs & time-variable grid charges	Optional (compatible tariff required)

Options for sector coupling

Heating element controller	Optional
Heat pump control „SG-Ready“	Optional
Threshold controller	Optional
Manual relay controller	Optional
Wallbox controller	Optional
Controller for multiple wallboxes	Optional
Monitoring of further producers or individual consumers	Optional

FEMS

FENECON Energy Management System



A system that selects the best route every day.

Essential

FEMS is the heart of your energy system and is fully integrated into the energy storage system as a compact module right from the start.

Future-proof

Thanks to FEMS, your energy storage system remains ready for whatever the future may bring. Optional FEMS apps allow you to expand your system with new devices, ideas, and possibilities at any time. All easily implemented thanks to our manufacturer-independent open-source approach.

Intelligent

FEMS ensures optimal utilization of the energy you have generated. The AI-based forecast creates a holistic, customized energy roadmap in real time that takes into account weather data, consumption profiles, tariffs, and grid conditions.



More info about FEMS



Test it yourself with our demo access

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More info about the product

