

The smart residential energy storage system

HOME S | 10 | 15



Key Facts

15

Power in kWh

8.4- 156.8

Capacity in kWh

22.5

Integrated PV connection
in kWp and for up to three
directions

Benefits

- PV-optimized integration of wallboxes, heat pumps and a heating element*
- Self-Consumption Optimization 2.0 with AI-optimized utilization of dynamic electricity tariffs*
- 3-phase emergency power supply with solar recharging and black-start capability
- Plug & Play installation
- All-in-one system with a compact high-voltage battery, a flexible DC, AC, and hybrid inverter, FEMS, the intelligent Energy Management System and service by the manufacturer
- Ready for the Energy Journey of your own: Increase your battery capacity, or add new functionality via 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	
IP classification	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 Erzeuger Typ 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
Tower - Width Depth in mm	506 401
Capacity warranty*	12 years or 6,000 cycles

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

Inverter



Product name	Home 6	Home 10	Home 15
	FINV-6-2-DAH	FINV-10-2-DAH	FINV-15-2-DAH

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	120		
Max. DC input voltage in V	1.000		
MPPT voltage range in V	150 - 850		
Nominal input voltage in V	620		
Max. effective input current per MPPT in A	16		
Max. short circuit current per MPPT in AA	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 bis +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
Topology	Not insulated		
DC overvoltage protection	Type 2		
Ripple control receiver inputs	Yes		
Cooling	Natural convection		

System configurations



No. of 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	11.4	14.3	17.2	20.0	22.9	25.8	28.7	31.5	34.4	37.3	40.1
2 towers with x modules						45.9	51.6	57.4	63.1	68.8	74.6	80.3
3 towers with x modules									94.7	103.3	111.9	120.5
4 towers with x modules										137.7	149.2	160.7
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						44.8	50.4	56.0	61.6	67.2	72.8	78.4
3 towers with x modules									92.4	100.8	109.2	117.6
4 towers with x modules										134.4	145.6	156.8
Nominal power in kW**												
Nom. power in kW (6 kW inv.)	4.03	5.38	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Nom. power in kW (10 kW inv.)	5.38	7.17	8,96	10,00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Nom. power in kW (15 kW inv.)	5.38	7.17	8,96	10,75	12.54	14.34	15.00	15.00	15.00	15.00	15.00	15.00
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						554	614	674	734	794	854	914
3 towers with x modules									1,101	1,191	1,281	1,371
4 towers with x modules										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

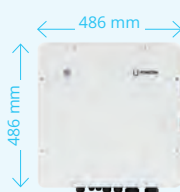
* DC-side at 25 °C and 0.2 C

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

Inverter

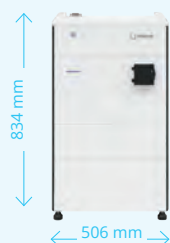


AVU (optional)*



*Compatible with Home 6 & 10

System variant 1 tower with 3 modules



System variant 4 towers with 14 modules each



FEMS Hardware



Hardware interfaces

Inputs	4 floating inputs
Outputs (FEMS relay board)	3 digital inputs (10 A per channel & metered), 2 dry contacts 1 analog output (0 to 10 V)
Parallel connection	CAN
Communication between components	RS485 – Modbus RTU

Communication interfaces

Internet connection	LAN
Local	Modbus/TCP-API, REST-API (read access, write access optional)
Online	Cloud-Rest-API (read access, write access optional)

Base & future capability

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

Advanced charging & discharging

Grid-optimized charging	Standard
Time-of-use tariffs	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 generators & consumers

Monitoring of further generators/ individual consumers	Optional
Metering (up to 120 A)	Internal energy meter included as standard (length: 10 m); external energy meter optional (length: 100 m)

FEMS

FENECON Energymanagement System



A system that selects the best route every day.

Included

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

Future-proof

Thanks to FEMS, your storage unit remains open for whatever the future may bring. Optional FEMS apps allow you to expand your energy system with new devices, ideas, and possibilities at any time. This is no problem thanks to the manufacturer-independent open-source approach.

Proactive

FEMS ensures that your energy doesn't just run – it follows your life. 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

FENECON GmbH
Gewerbepark 6
94547 Iggenbach
Germany

+49 9903 6280-0
info@fenecon.de
www.fenecon.de



More info about
the product

