

The smart residential energy storage system

HOME 6 | 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

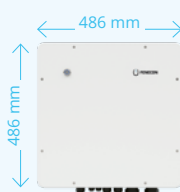
* DC-side at 25 °C and 0.2 C

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

Inverter



AVU (optional)*

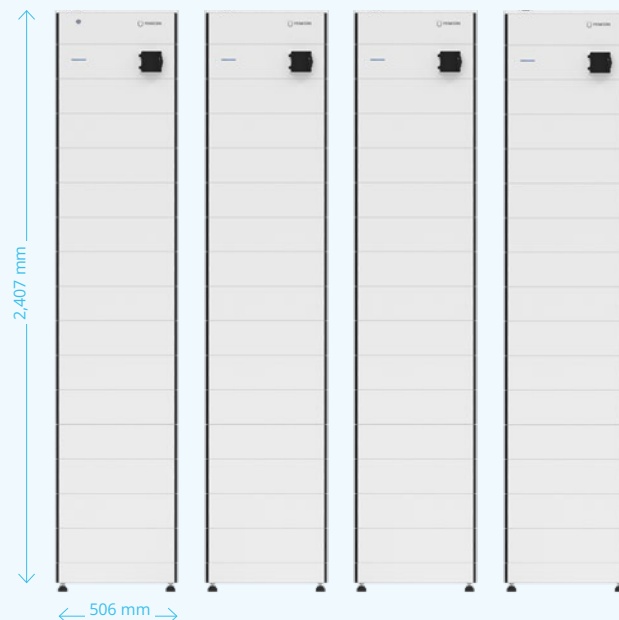


*Compatible with Home 6 & 10 & 15

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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www.fenecon.com



More info about
the product



The high-power residential energy storage system

HOME 20 | 30



Key Facts

30

Power in kW

14- 168

Capacity in kWh

45

Integrated PV connection
in kWp and for up to three
orientations

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 Charging included. Further apps available optionally.

System

Product warranty 10 years



Installation / Ambient conditions

Ingress Protection	IP55
Operating altitude in m	≤ 2,000
Installation/operating 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.

** Higher supply currents are possible through optional meters.

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 capacity per battery module in kWh	2.87
Usable capacity per battery module 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 20
FHI-20-DAH

Home 30
FHI-29,9-DAH

DC connection

Max. DC input power in kWp	30	45
MPP Trackers	2	3
Inputs per MPPT	2 (MC4)	
Starting voltage MPPT in V	200	
Max. DC input voltage in V	1,000	
MPPT voltage range in V	200 - 850	
Nominal input voltage in V	620	
Max. effective input current per MPPT in A	30	
Max. short circuit current per MPPT in A	38	
Max. (dis-)charging power in kW	20	29.9

AC connection

Grid connection	400/380 V, 3L/N/PE, 50/60 Hz	
Max. output current (400 V) in A	29	43.3
Max. input current (400 V) in A	45	50
Nominal apparent power output in VA	20,000	29,900
Max. apparent power of the grid in VA	22,000	29,900
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	20,000 (6,666)	29,900 (9,966)
Unbalanced load in VA	6,666	9,966
Black start capability	Yes	
Solar recharging	Yes	

Efficiency

Max. efficiency in %	98.0	
Europ. efficiency in %	97.5	

General specifications

Dimensions (W D H) in mm	520 220 660	
Weight in kg	48	54
DC surge protection	Type 2	
Ripple control receiver inputs	Yes	
Cooling	Intelligent fan	

System configurations

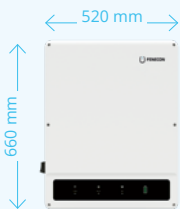


Battery modules per tower	5	6	7	8	9	10	11	12	13	14	15
Nominal capacity in kWh											
1 tower with x modules	14.3	17.2	20.1	22.9	25.8	28.7	31.5	34.4	37.3	40.1	43.0
2 towers with x modules each				45.9	51.6	57.3	63.1	68.8	74.5	80.3	86.0
3 towers with x modules each							94.6	103.2	111.8	120.4	129.0
4 towers with x modules each								137.6	149.1	160.6	172.0
Effective capacity in kWh*											
1 tower with x modules	14.0	16.8	19.6	22.4	25.2	28.0	30.8	33.6	36.4	39.2	42.0
2 towers with x modules each				44.8	50.4	56.0	61.6	67.2	72.8	78.4	84.0
3 towers with x modules each							92.4	100.8	109.4	117.6	126.0
4 towers with x modules each								134.4	145.6	156.8	168.0
Nominal power in kW**											
Nom. power in kW (20 kW Inv.)	11.2	13.4	15.7	17.9	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Nom. power in kW (30 kW Inv.)	11.2	13.4	15.7	17.9	20.2	22.4	24.6	26.9	29.1	30.0	30.0
Weight in kg											
1 tower with x modules	187	217	247	277	307	337	367	397	427	457	487
2 towers with x modules each				554	614	674	734	794	854	914	974
3 towers with x modules each							1,101	1,191	1,281	1,371	1,461
4 towers with x modules each								1,588	1,708	1,828	1,948
Height in mm (approx.)											
	1,120	1,263	1,406	1,549	1,692	1,835	1,978	2,121	2,264	2,407	2,550

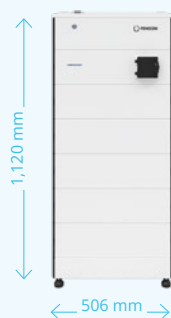
* DC-side at 25 °C and 0.2 C

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

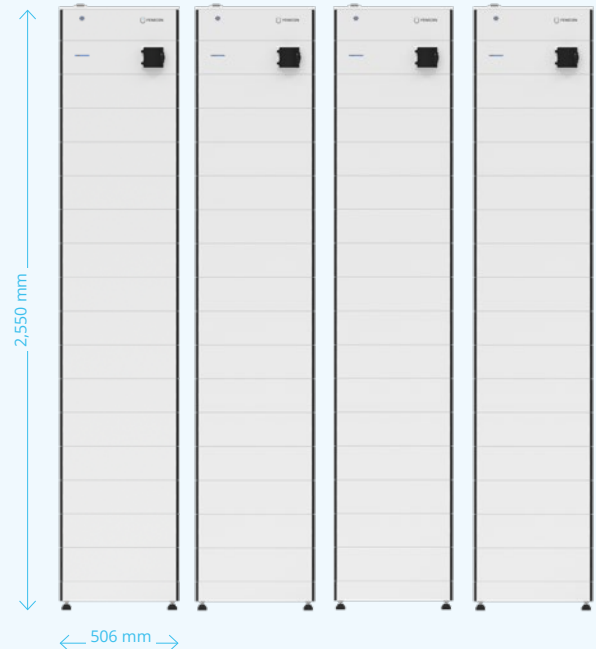
Inverter



System variant 1 tower with 5 modules



System variant 4 towers with 15 modules each



FEMS Hardware



Hardware interfaces

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

Communication interfaces

Internet connection	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

FEMS

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More info about FEMS



Test it yourself with our demo access

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More info about the product



3.4. Technical Data — FENECON Parallel Box (optional)

Description	Value/Dimension
DC operating voltage	224 V to 672 V
Max. Current (Battery)	50 A
Operating Temperature	-10 °C ~ 50 °C
Ingress Protection	IP55 (when plugged in)
Width Depth Height	506 mm 401 mm 157 mm
Weight	10 kg
Installation	stackable

Table 11. Technical Data — Parallel Box

3.4.1. Dimensions

The dimensions are given in mm.

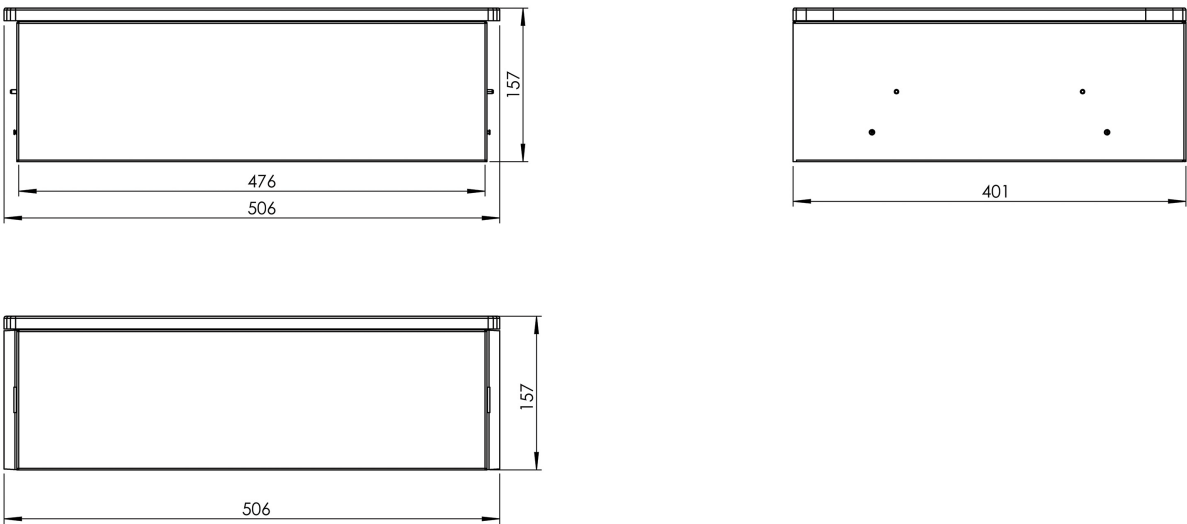


Image 4. Dimensions — Parallel Box

3.4. Technical Data — FENECON Parallel Box (optional)

3.4.2. Parallel Box — Terminal Assignment

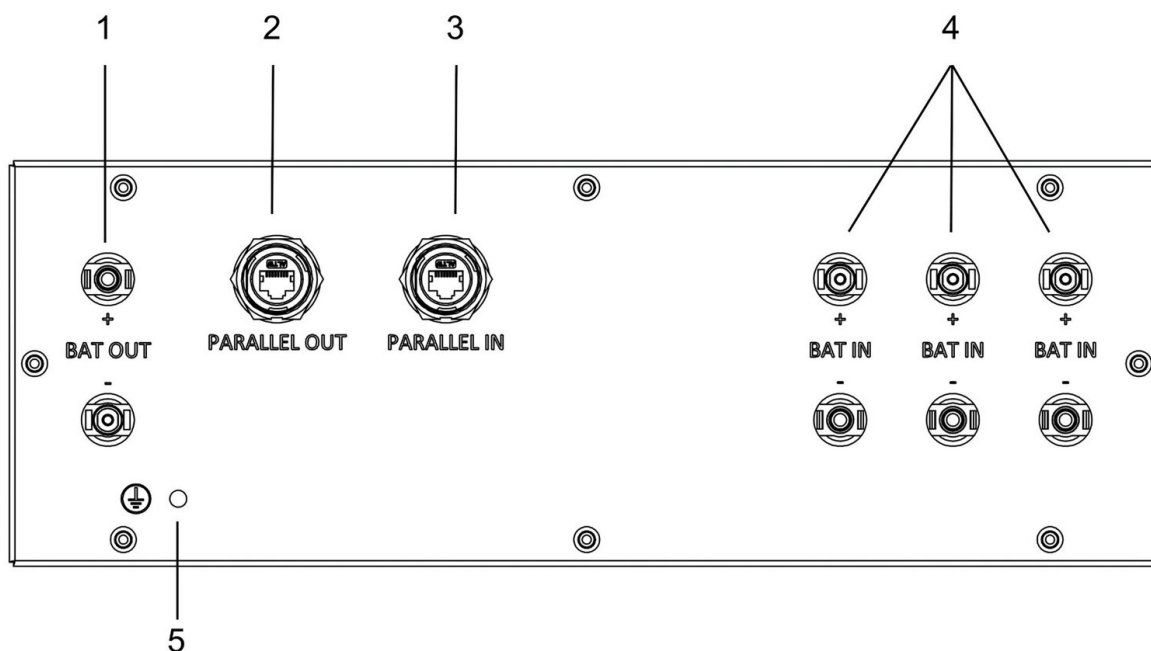


Image 5. Terminal Assignment — Parallel Box

List item	Description
1	Battery connection to the inverter (MC4-Evo stor)
2	Communication output for connecting multiple battery towers in parallel
3	Communication input for connecting multiple battery towers in parallel
4	Battery connection for additional battery towers (MC4-Evo stor)
5	Earthing connection

Table 12. Terminal Assignment — Parallel Box

3.5. Technical Data — Extension Box

Description	Value/Dimension
DC operating voltage	224 V to 672 V
Max. Current (Battery)	50 A
Operating Temperature	-10 °C to 50 °C
Ingress Protection	IP55 (when plugged in)
Width Depth Height	506 401 157 mm
Weight	9 kg
Installation	stackable

Table 13. Extension Box — Technical Data

3.5.1. Dimensions

The dimensions are given in mm.

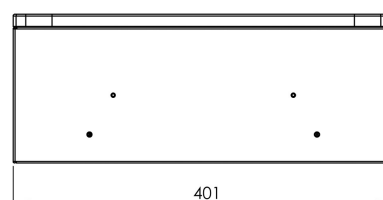
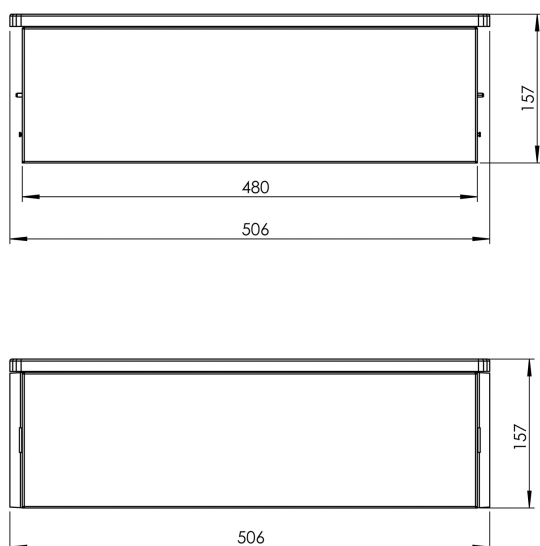


Image 6. Dimensions — Extension Box

3.5. Technical Data — Extension Box

3.5.2. Extension Box — Terminal Assignment

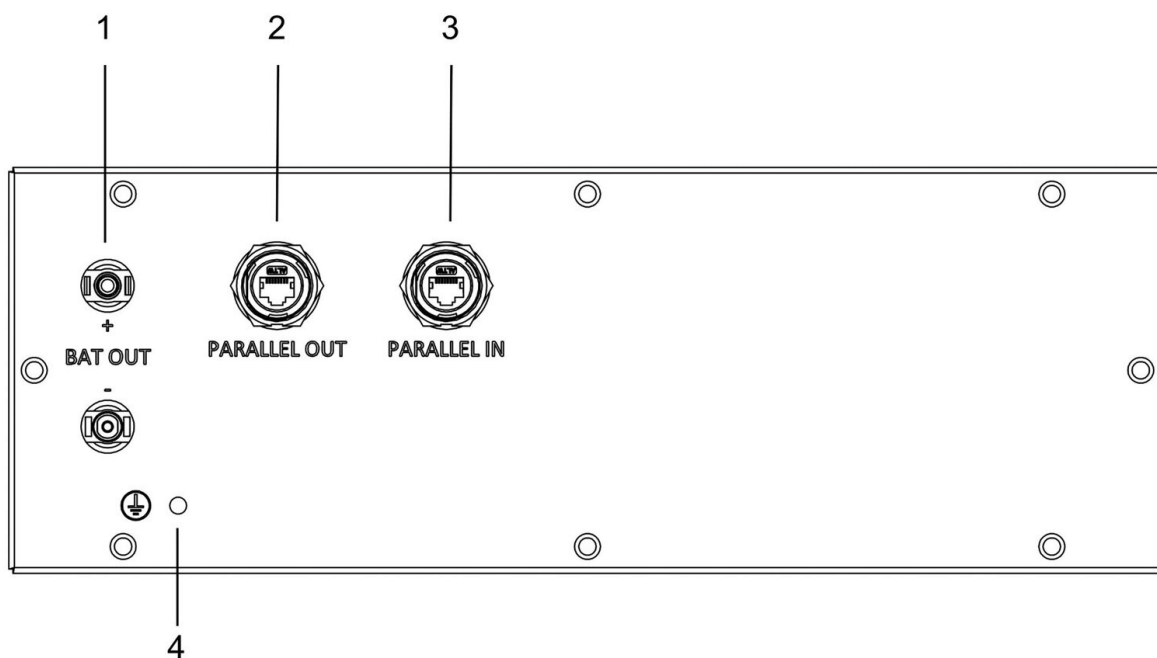


Image 7. Terminal Assignment — Extension Box

List item	Description
1	Battery connection to the FEMS box in parallel (MC4-Evo stor)
2	Communication output for connecting multiple battery towers in parallel
3	Communication input for connecting multiple battery towers in parallel
4	Earthing connection

Table 14. Terminal Assignment — Extension Box

3.6. Technical Data — BMS box

Description	Value/Dimension
Maximum operating voltage range	224 V to 672 V
Maximum output/input current	50 A
Optimal operating temperature	15 to 30 °C
Operating temperature range	-20 to 55 °C
Protection specification	IP55 (when plugged in)
Width (incl. side panel) Depth Height	506 401 143 mm
Weight	13 kg
Installation	stackable/wall-mounted

Table 15. Technical Data — BMS box

3.6.1. Dimensions

The dimensions are given in mm.

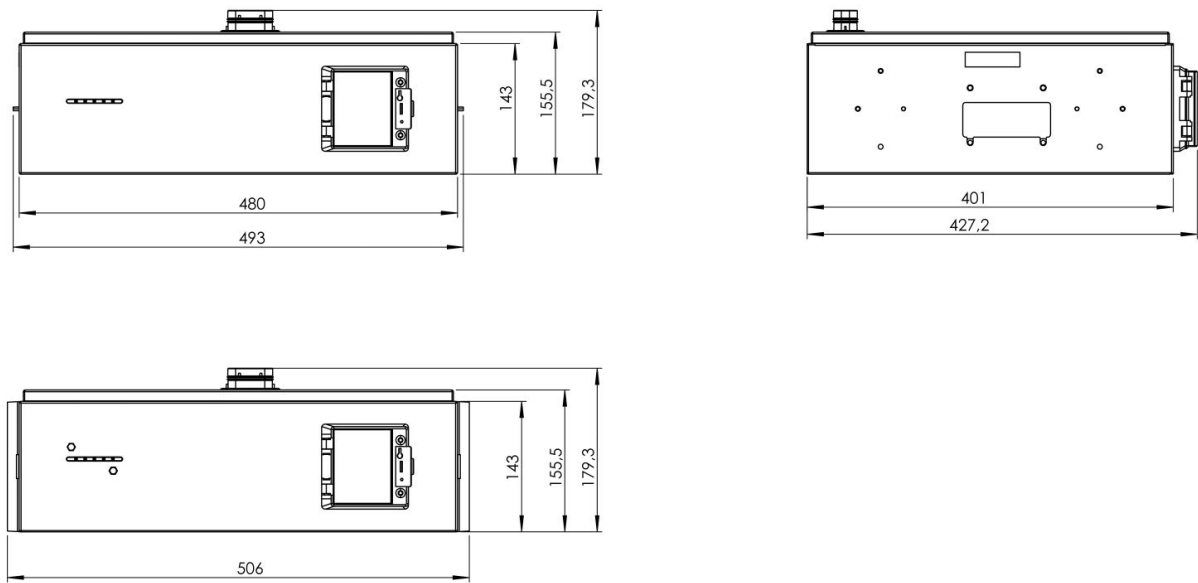


Image 8. Dimensions — BMS box

3.7. Technical data — FENECON battery module

3.7. Technical data — FENECON battery module

Designation	Value/dimension
Usable capacity	62.4 Ah/2.80 kWh
Rated voltage	44.8 V
Output voltage range	39.2 V to 50.4 V
Battery operating temperature range	-20 °C to +55 °C
Storage temperature range (over 7 days)	-30 °C to +60 °C
Storage temperature range (over 30 days)	-20 °C to +55 °C
Storage temperature range (cumulative up to 270 days)	-10 °C to +45 °C
Protection specification	IP55 (plugged in)
Weight	30 kg
Installation	stackable
Parallel connection	4 battery towers in parallel
Cooling	natural cooling
Shipping capacity	< 30 % SoC
Module safety certification	VDE 2510/IEC62619
UN transport test standard	UN38.3
Relative humidity during storage	5 % to 95 %

Table 16. Technical data — Battery module



NOTICE

Storage longer than 12 months

Possible consequences: Deep discharge of the cells, defect of the battery module.

- External charging of the battery modules to rated voltage. This must be performed by the manufacturer or a company authorized by the manufacturer.

3.7.1. Dimensions

The dimensions are given in mm.

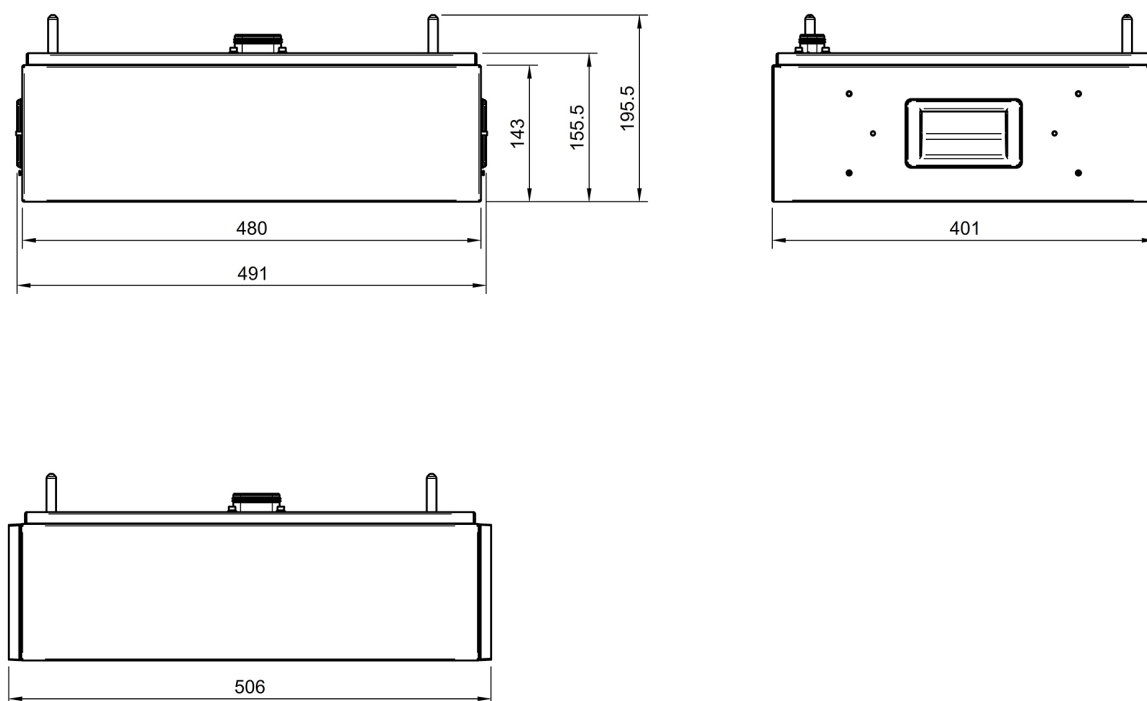


Image 9. Dimensions — Battery module

3.7. Technical data — FENECON battery module

3.7.2. Electrical parameters of the battery modules

For amounts of battery modules from 3 to 6

Parameter	Value/dimension			
No. of modules	3S	4S	5S	6S
Nominal capacity in kWh	8.6	11.4	14.3	17.2
Usable capacity in kWh	8.4	11.2	14.0	16.8
Width incl. side panel in mm	506			
Depth in mm	401			
Height in mm	834	977	1120	1263
Weight in kg	127	157	187	217
Nominal voltage in V	134.4	179.2	224.0	268.8
Output voltage range in V	117.6 ~ 151.2	156.8 ~ 201.6	196 ~ 252	235.2 ~ 302.4
Maximum continuous charging/discharging power in kW				
Inverter with 6 kW	4.03	5.38	6.00	6.00
Inverter with 10 kW	5.38	7.17	8.96	10.00
Inverter with 15 kW	5.38	7.17	8.96	10.75

Table 17. Electrical parameters — Amount of battery modules 3S to 6S (3 to 6 modules in series)

For battery modules 8 to 11

Parameter	Value/dimension			
Modules	8S	9S	10S	11S
Nominal capacity in kWh	22.9	25.8	28.7	31.5
Usable capacity in kWh	22.4	25.2	28.0	30.8
Width incl. side panel in mm	506			
Depth in mm	401			
Height in mm	1549	1692	1835	1978
Weight in kg	277	307	337	367
Rated voltage in V	358.4	403.2	448.0	492.8
Output voltage range in V	313.6 ~ 403.2	352.8 ~ 453.6	392.0 ~ 504.0	431.2 ~ 554.4
Maximum continuous charging/discharging power in kW				
Inverter with 6 kW	6.00	6.00	6.00	6.00
Inverter with 10 kW	10.00	10.00	10.00	10.00
Inverter with 15 kW	12.54	14.34	15.00	15.00

Table 18. Electrical parameters — Number of battery modules 8S to 11S (8 to 11 modules in series)

For battery modules 12 to 14

Parameter	Value/dimension		
Modules	12S	13S	14S
Nominal capacity in kWh	34.4	37.3	40.1
Usable capacity in kWh	33.6	36.4	39.2
Width incl. side panel in mm	506		
Depth in mm	401		
Height in mm	2121	2264	2407
Weight in kg	397	427	457
Rated voltage in V	537.6	582.4	627.2
Output voltage range in V	470.4 ~ 604.8	509.6 ~ 655.2	548.8 ~ 705.6
Maximum continuous charging/discharging power in kW			
Inverter with 6 kW	6.00	6.00	6.00
Inverter with 10 kW	10.00	10.00	10.00
Inverter with 15 kW	15.00	15.00	15.00

Table 19. Electrical parameters — Amount of battery modules 12S to 14S (12 to 14 modules in series)



The specified capacity values refer to one battery tower and are rounded to one decimal place.

4.2. System structure: Variants with emergency power

4.2.6. Required components

Depending on the system configuration, a maximum of the following components is required. When connecting up to four battery towers in parallel, ensure that the same number of battery modules is installed in each battery tower.

Amount of battery towers	Amount of battery modules max.	BMS box (per tower)	EMS Box	Parallel Box	Extension Box
1	14	1	1	-	-
2	28	1	1	1	-
3	42	1	1	1	1
4	56	1	1	1	2

Table 28. System configuration — Required components

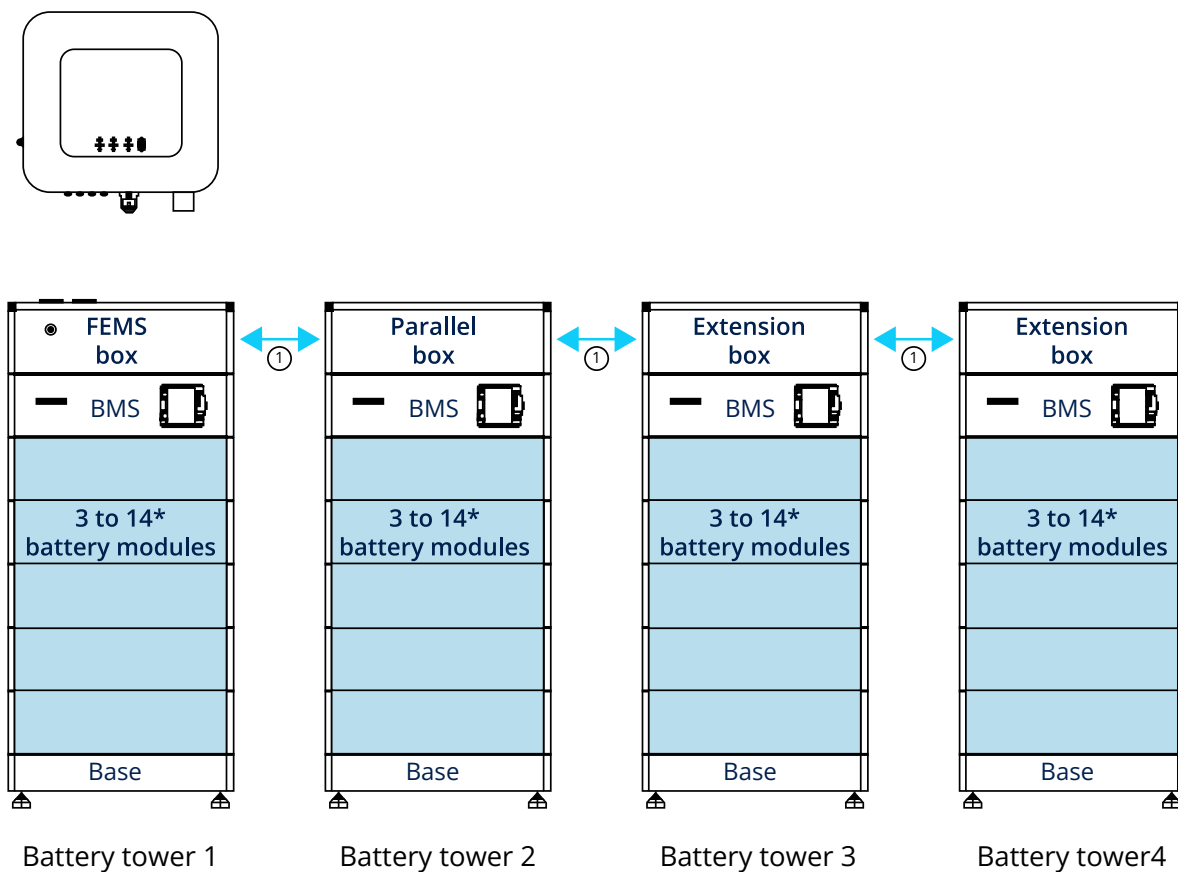


Image 19. FENECON Home 6, 10 & 15 electrical energy storage system setup with four battery towers

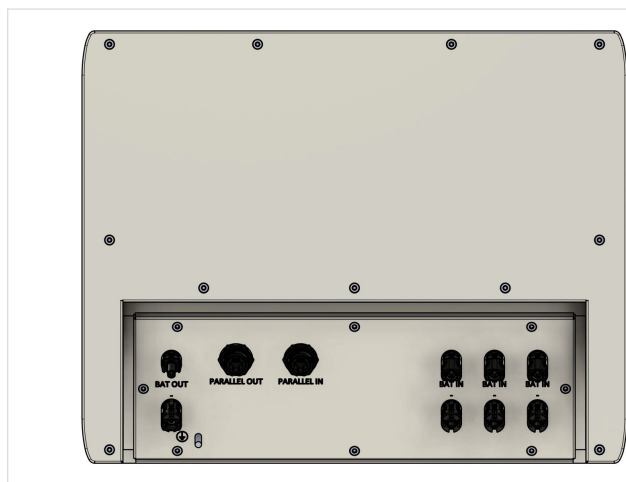
7. Parallel connection of several battery towers

7. Parallel connection of several battery towers

7.1. Assembly of further battery towers

7.1.1. Installation — Battery Tower 2 with FENECON Parallel Box

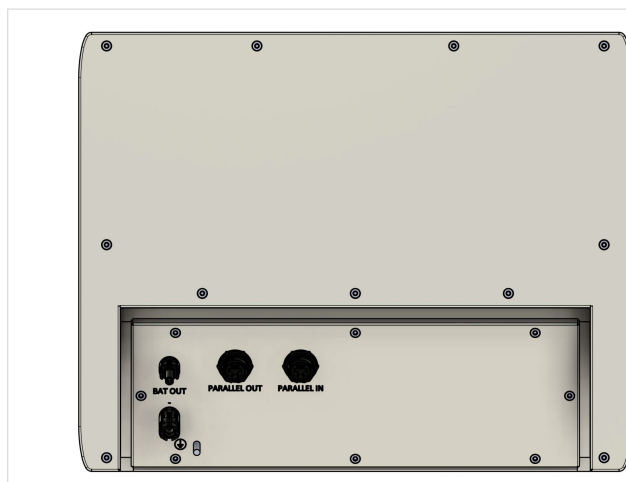
If a second battery tower is available, the Parallel box is plugged onto the second battery tower instead of the EMS box.



To do this, repeat the steps from the section [\[Installation of Battery Tower 1 with FEMS Box\]](#). In step 8, connect the FENECON Parallel Box instead of the FEMS Box.

7.1.2. Installation — Battery towers 3 through 4 with FENECON Extension Box

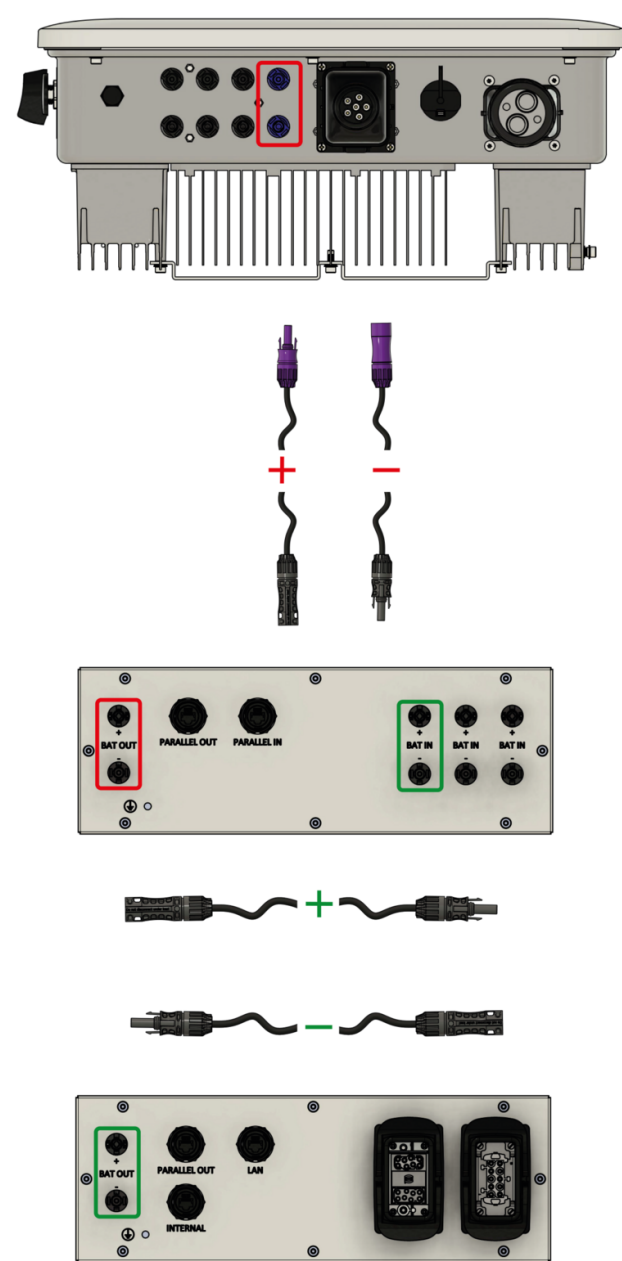
If there is a third to fourth battery tower, an Extension box is attached to the third to fourth battery tower instead of the EMS box.



To do this, repeat the steps from the section [\[Installation of Battery Tower 1 with the FEMS Box\]](#). In step 8, connect the FENECON Extension Box instead of the FEMS Box.

7.2. Electrical installation of additional battery towers

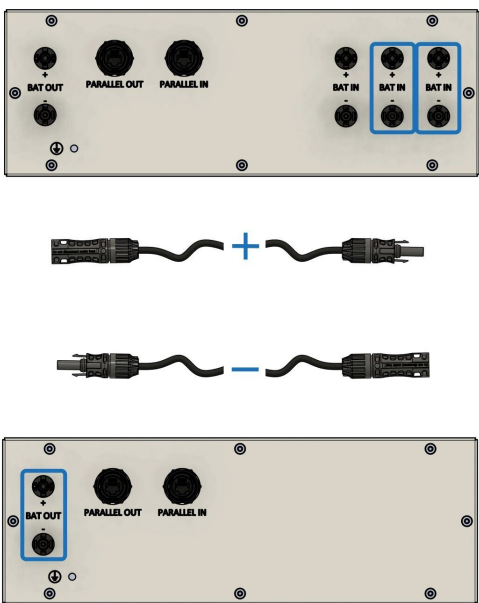
7.2.1. DC cable between two battery towers and the Inverter



1. Use the enclosed DC cable (3 m) for the t-shaped connector from the second battery tower with the plugged-on Parallel Box to the inverter.
2. If the length of the DC battery cables is not sufficient, one of the enclosed sets of DC cables (2 m) can be used to extend them.
3. Connect the cables to the second battery tower (Parallel Box) (BAT OUT) and the inverter (BAT). (red)
4. Connect plus (+) to plus (+) and minus (-) to minus (-).
5. The two battery towers are connected to each other using the second set of cables supplied in the Parallel box.
6. To do this, connect the two cables to the first battery (EMS box) (BAT OUT) and to the second battery (Parallel box) (BAT IN) (green).

7.2. Electrical installation of additional battery towers

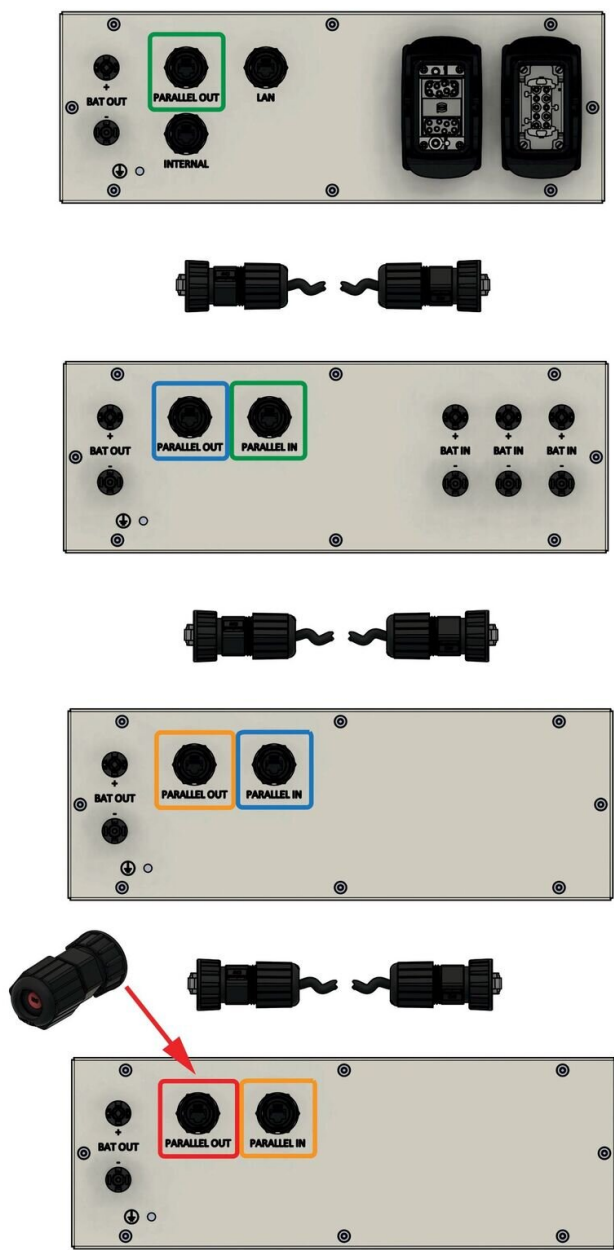
7.2.2. DC cable between the third to fourth battery tower and Parallel box



1. The third and fourth battery towers are connected to the Parallel Box. Depending on the distance, a 2-meter cable set is sufficient, if not, the two enclosed cable sets can be connected and thus extended to 4 m.
2. To do this, connect the two cables between the Extension box (BAT OUT) and the parallel switch box (BAT IN).

7.3. Communication of further battery towers

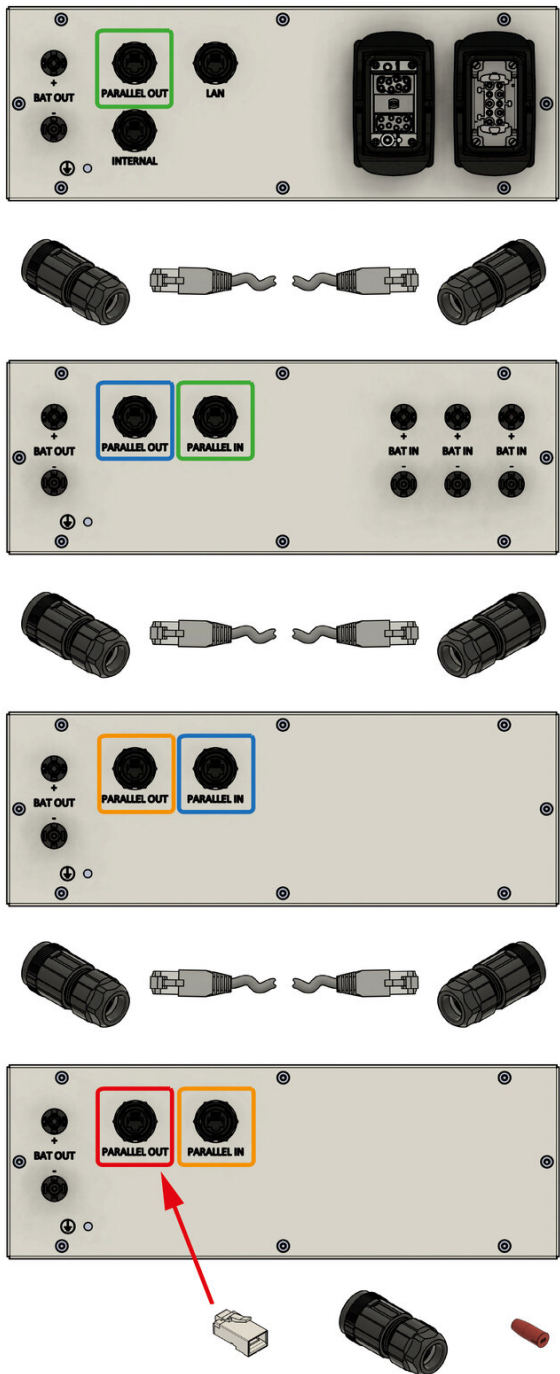
7.3.1. Communication between two to four battery towers — Variant 1



1. If several battery towers are operated in parallel, the network cable supplied with the Parallel box and Extension box must be used between the towers (green).
2. The network cable must be plugged in and locked between the EMS box (PARALLEL OUT) and the Parallel box (PARALLEL IN).
3. Likewise on all other towers, always between PARALLEL OUT and PARALLEL IN (blue/orange).
4. At the last tower, plug the jumper plug into PARALLEL OUT (red).

7.3.2. Communication between two to four battery towers — Variant 2

7.3. Communication of further battery towers



1. If several battery towers are operated in parallel, the network cable supplied with the Parallel box and Extension box must be used between the towers (green).
2. The network cable must be plugged in and locked between the EMS box (PARALLEL OUT) and the Parallel box (PARALLEL IN).
3. Likewise on all other towers, always between PARALLEL OUT and PARALLEL IN (blue/orange).
4. At the last tower, plug the jumper plug into PARALLEL OUT (red).