

## Energy Block AC-coupled, Performance



### ADVANTAGES:

- Easy and quick installation
- Universally applicable:
  - Peak load capping
  - Self-consumption optimization
  - Charging park management
- 25-fold cascable

<b>BATTERY INVERTER</b>		<b>Pramac 50K</b>	<b>Pramac 88K</b>
<b>Article number</b>		<b>672400</b>	<b>672254</b>
<b>General data</b>			
Maximum efficiency	98.6 (IEC 61683 standard applied)		[%]
Noise	<70		[dB]
Cooling	Intelligent Active Cooling		[-]
Weight	69		[kg]
Dimensions (WxHxD)	673 x 692 x 484		[mm]
Off-grid capable?	no		[-]
Operating temperature min/max	-25/60		[°C]
Standby consumption	<15		[W]
Housing protection class	IP65		[-]
Cascadable?	Yes, 25x times		[-]

<b>Battery*</b>			
Max. charge/discharge current	100/100		[A]
Voltage range	585 - 900		[V]
Number of ports	1 plus, 1 minus		[-]
Battery	LFP (Lithium Iron Phosphate), 16-21 Modules		[-]

<b>AC connection*</b>			
Nom. Output Power	50	88	[kW]
Max. Peak Power	50	88	[kW]
Max. Output Current	128		[A]
Nom. Output Voltage	400		[V]
Nom. Output Frequency	50/60		[Hz]
Mains connection	3L/N/PE		[-]
Mesh type	TT, TN-C, TN-S		[-]
Operating voltage	3P, 400V AC, 50Hz		[-]

\* Performance reductions of up to 10% are possible.

All information without guarantee: Spelling and printing errors excepted.

<b>BATTERY STORAGE</b>							
<b>Model</b>	<b>61.4kWh 65.3kWh 69.1kWh 73.0kWh 76.8kWh 80.6kWh</b>						
<b>General data</b>							
Number of battery modules	16	17	18	19	20	21	[-]
Weight (without inverter)	782	824	866	908	950	992	[kg]
Dimensions (without inverter)	H	2000					[mm]
	B	1200					[mm]
	T	780					[mm]
Charging Temperature Range	0-40					[°C]	
Discharge Temperature Range	0-40					[°C]	
Housing protection class	IP21					[-]	
Battery	LFP (Lithium Iron Phosphate)					[-]	
Number of cells per module	24					[-]	
Number of battery racks	2					[-]	
Certifications	UN38.3, IEC 62619:2022					[-]	

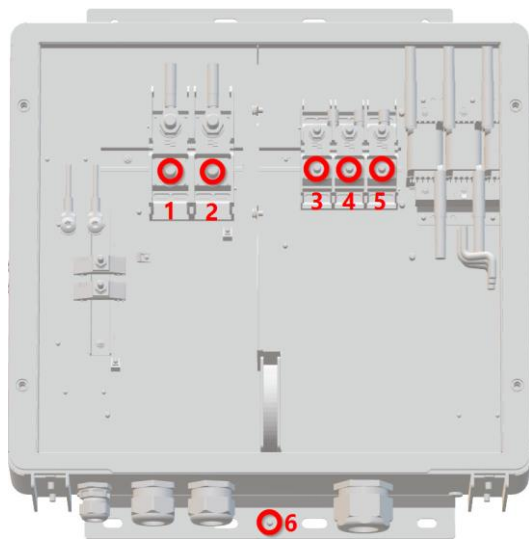
<b>Performance data</b>							
Number of battery modules	16	17	18	19	20	21	[-]
Max. storage capacity	61,4	65,3	69,1	73,0	76,8	80,6	[kWh]
Nominal voltage	614	653	691	730	768	806	[V]
Max. charge/discharge current	100 / 100					[A]	
Max. Depth of Discharge (DoD)	90					[%]	
Max. usable storage capacity***	55,3	58,8	62,2	65,7	69,1	72,6	[kWh]
Max. Charging Efficiency	98,4					[%]	
Max. Efficiency Discharge	97,5					[%]	

<b>Max. charging/discharging capacity M-TEC Energy Block**</b>							<b>Inverter Model</b>
Battery Model	<b>61.4 kWh 65.3 kWh 69.1 kWh 73.0 kWh 76.8 kWh 80.6 kWh</b>						
Charge/discharge capacity	[kW]	50					Pramac 50K
		61,4	65,3	69,1	73,0	76,8	80,6

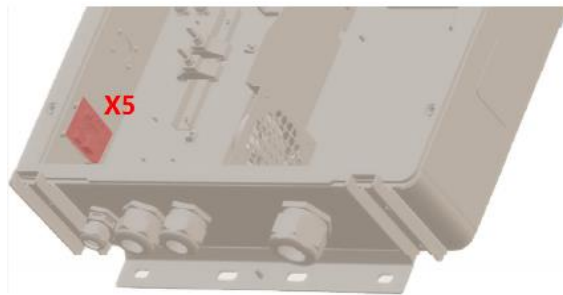
\*\* Table by nominal values, deviation due to actual SoC and/or temperatures not taken into account!

\*\*\* Depth of Discharge (DoD): 90%

### Connections Battery Inverter

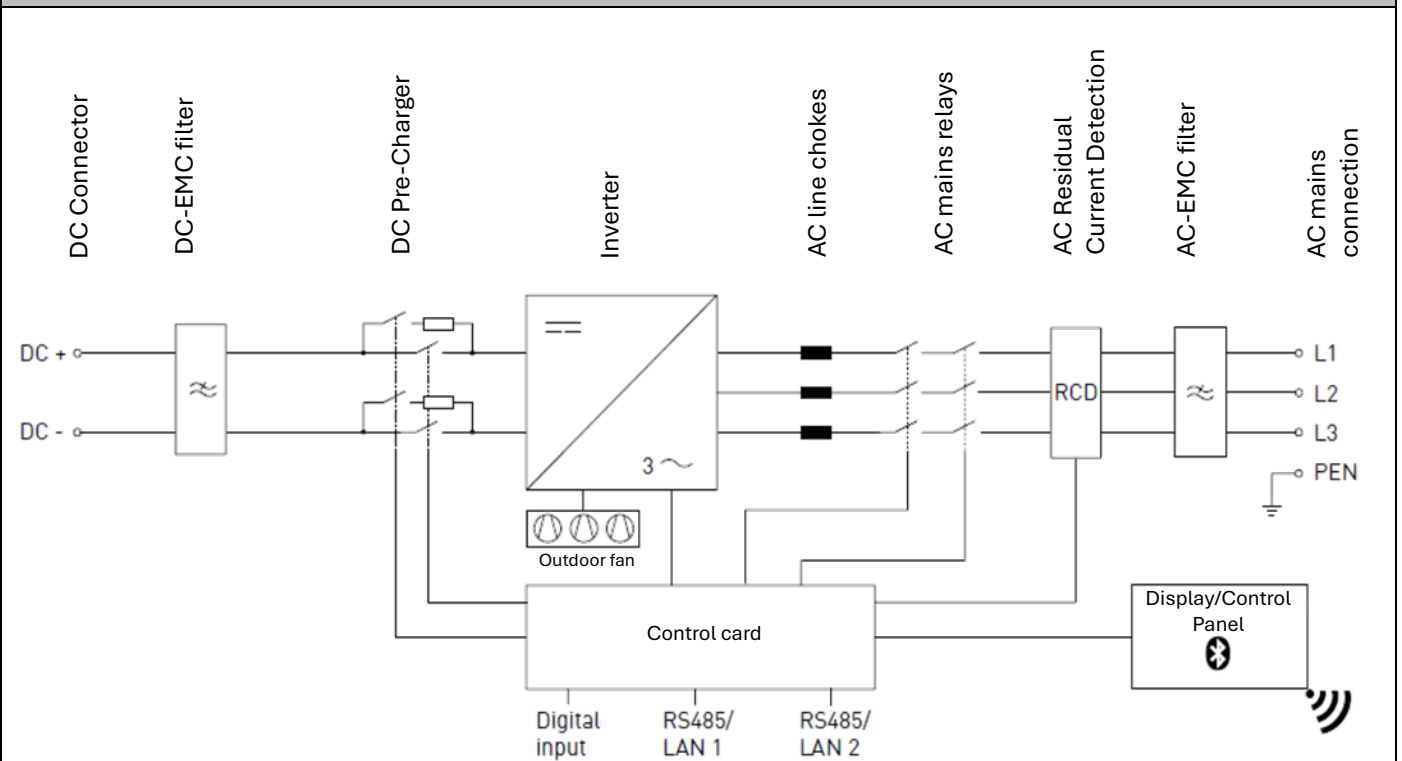


- 1 Battery + (DC)
- 2 Battery - (DC)
- 3 Phase L1 (AC)
- 4 Phase L2 (AC)
- 5 Phase L3 (AC)
- 6 Potential equalization

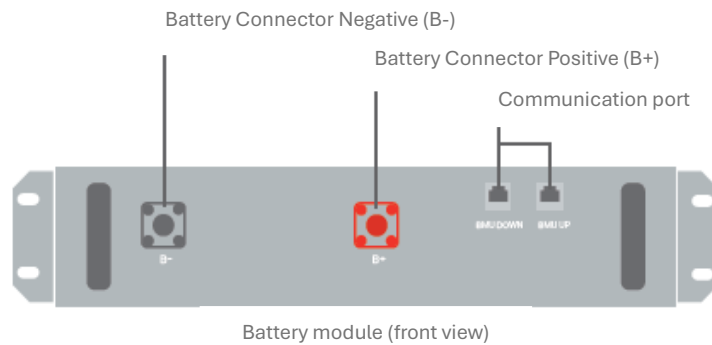


- Connector X5
- | PIN | Function                                     |
|-----|--|
| 1   | Control Signal Output (0 V = power lock)     |
| 2   | Control Signal Output (24 V = power release) |
| 3   | Ground Output                                |
| 4   | Ground Input                                 |

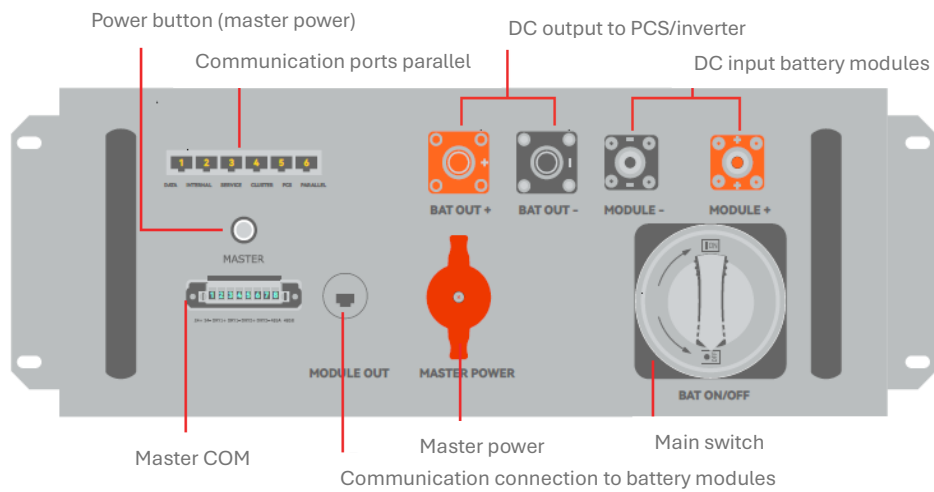
### Electrical Connection Battery Inverter



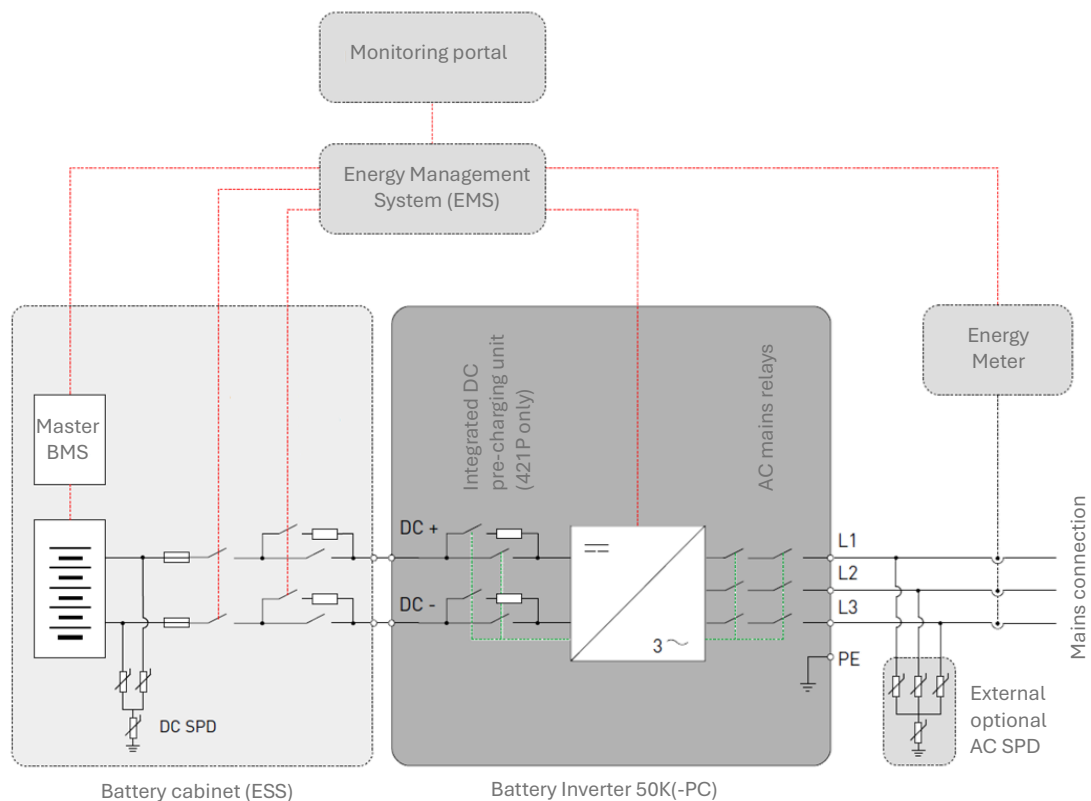
### Connection Battery



### Connections Master BMS and Sub-Master BMS



### Connection diagram of the entire system (battery - EMS - inverter)



**Electrical connection**

