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## Hardware

### Low voltage system building blocks

#### Hybrid Inverters

Description	Grid	Battery	Power [kW]	Code	Mounting
Low voltage hybrid inverter (Deye)	3-phase	LV	10	<a href="#">LV-10-3P-01</a>	wall
Low voltage hybrid inverter (Deye)	3-phase	LV	12	<a href="#">LV-12-3P-01</a>	wall
Low voltage hybrid inverter (Deye)	1-phase	LV	8	<a href="#">LV-08-1P-01</a>	wall
Low voltage hybrid inverter (Deye)	1-phase	LV	12	<a href="#">LV-12-1P-01</a>	wall
Low voltage hybrid inverter (Deye)	1-phase	LV	16	<a href="#">LV-16-1P-01</a>	wall

#### Batteries

Description	Voltage	Ah	Capacity [kWh]	Code	Mounting
LiFePO4 LV battery module	51.2	200	10.2	<a href="#">RB 512-200-W</a>	wall
LiFePO4 LV battery module	51.2	280	14.3	<a href="#">RB 512-280-W</a>	wall

### High voltage system building blocks

#### Hybrid Inverters

Description	Grid	Battery	Power [kWh]	Code	Mounting
High voltage hybrid inverter (Deye)	3-phase	HV	10	<a href="#">HV-10-3P-01</a>	wall
High voltage hybrid inverter (Deye)	3-phase	HV	15	<a href="#">HV-15-3P-01</a>	wall
High voltage hybrid inverter (Deye)	3-phase	HV	20	<a href="#">HV-20-3P-01</a>	wall

Description	Grid	Battery	Power [kWh]	Code	Mounting
High voltage hybrid inverter (Deye)	3-phase	HV	30	<a href="#">HV-30-3P-01</a>	wall
High voltage hybrid inverter (Deye)	3-phase	HV	50	<a href="#">HV-50-3P-01</a>	wall
High voltage hybrid inverter (Deye)	3-phase	HV	60	<a href="#">HV-60-3P-01</a>	wall
High voltage hybrid inverter (Deye)	3-phase	HV	70	<a href="#">HV-70-3P-01</a>	wall
High voltage hybrid inverter (Deye)	3-phase	HV	75	<a href="#">HV-75-3P-01</a>	wall
High voltage hybrid inverter (Deye)	3-phase	HV	80	<a href="#">HV-80-3P-01</a>	wall

## eSTORE all in one solution (Battery rack with inverter)

Battery module RB 512-100-R						Order code	
No. of modules	Voltage[V]	Capacity[Ah]	Current[A]	Nominal Power[W]	Capacity[Wh]	Inverter HV-30-3P-01	Inverter HV-50-3P-01
8	409,6	100	100	40960	40960	eSTORE 410-800-30-0	eSTORE 410-800-50-0
9	460,8	100	100	46080	46080	eSTORE 461-900-30-0	eSTORE 461-900-50-0
10 (recomended)	512	100	100	51200	51200	<a href="#">eSTORE 512-1000-30-0</a>	<a href="#">eSTORE 512-1000-50-0</a>
11	563,2	100	100	56320	56320	eSTORE 563-1100-30-0	eSTORE 563-1100-50-0
12	614,4	100	100	61440	61440	eSTORE 614-1200-30-0	eSTORE 614-1200-50-0
13	665,6	100	100	66560	66560	eSTORE 665-1300-30-0	eSTORE 665-1300-50-0
Battery module RB 512-200-R						Order code	
No. of modules	Voltage[V]	Capacity[Ah]	Current[A]	Nominal Power[W]	Capacity[Wh]	Inverter HV-50-3P-01	Inverter HV-60-3P-01
8	409,6	200	100	40960	81920	eSTORE 410-1600-50-0	eSTORE 410-1600-60-0
9	460,8	200	100	46080	92160	eSTORE 461-1800-50-0	eSTORE 461-1800-60-0
10 (recomended)	512	200	100	51200	102400	<a href="#">eSTORE 512-2000-50-0</a>	<a href="#">eSTORE 512-2000-60-0</a>
11	563,2	200	100	56320	112640	eSTORE 563-2200-50-0	eSTORE 563-2200-60-0
12	614,4	200	100	61440	122880	eSTORE 614-2400-50-0	eSTORE 614-2400-60-0
13	665,6	200	100	66560	133120	eSTORE 665-2600-50-0	eSTORE 665-2600-60-0
Battery module RB 512-280-R						Order code	
No. of modules	Voltage[V]	Capacity[Ah]	Current[A]	Nominal Power[W]	Capacity[Wh]	Inverter HV-60-3P-01	Inverter HV-75-3P-01
8	409,6	280	200	81920	114688	eSTORE 410-2240-60-0	eSTORE 410-2240-75-0
9	460,8	280	200	92160	129024	eSTORE 461-2520-60-0	eSTORE 461-2520-75-0
10 (recomended)	512	280	200	102400	143360	<a href="#">eSTORE 512-2800-60-0</a>	<a href="#">eSTORE 512-2800-75-0</a>
11	563,2	280	200	112400	157696	eSTORE 563-3080-60-0	eSTORE 563-3080-75-0

<b>Battery module RB 512-100-R</b>						<b>Order code</b>	
<b>No. of modules</b>	<b>Voltage[V]</b>	<b>Capacity[Ah]</b>	<b>Current[A]</b>	<b>Nominal Power[W]</b>	<b>Capacity[Wh]</b>	<b>Inverter HV-30-3P-01</b>	<b>Inverter HV-50-3P-01</b>
12	614,4	280	200	122880	172032	eSTORE 614-3360-60-O	eSTORE 614-3360-75-O
13	665,6	280	200	133120	186368	eSTORE 665-3640-60-O	eSTORE 665-3640-75-O

## eSTORE High Voltage batteries (HV Battery rack without inverter)

<b>Battery module RB 512-100-R</b>						
<b>No. of modules</b>	<b>Voltage[V]</b>	<b>Capacity[Ah]</b>	<b>Current[A]</b>	<b>Nominal Power[W]</b>	<b>Capacity[Wh]</b>	<b>Order code</b>
8	409,6	100	100	40960	40960	eSTORE 410-800-O
9	460,8	100	100	46080	46080	eSTORE 461-900-O
10 (recomended)	512	100	100	51200	51200	eSTORE <a href="#">512-1000-O</a>
11	563,2	100	100	56320	56320	eSTORE 563-1100-O
12	614,4	100	100	61440	61440	eSTORE 614-1200-O
13	665,6	100	100	66560	66560	eSTORE 665-1300-O
<b>Battery module RB 512-200-R</b>						
<b>No. of modules</b>	<b>Voltage[V]</b>	<b>Capacity[Ah]</b>	<b>Current[A]</b>	<b>Nominal Power[W]</b>	<b>Capacity[Wh]</b>	<b>Order code</b>
8	409,6	200	100	40960	81920	eSTORE 410-1600-O
9	460,8	200	100	46080	92160	eSTORE 461-1800-O
10 (recomended)	512	200	100	51200	102400	eSTORE <a href="#">512-2000-O</a>
11	563,2	200	100	56320	112640	eSTORE 563-2200-O
12	614,4	200	100	61440	122880	eSTORE 614-2400-O
13	665,6	200	100	66560	133120	eSTORE 665-2600-O
<b>Battery module RB 512-280-R</b>						
<b>No. of modules</b>	<b>Voltage[V]</b>	<b>Capacity[Ah]</b>	<b>Current[A]</b>	<b>Nominal Power[W]</b>	<b>Capacity[Wh]</b>	<b>Order code</b>
8	409,6	280	200	81920	114688	eSTORE 410-2240-O
9	460,8	280	200	92160	129024	eSTORE 461-2520-O
10 (recomended)	512	280	200	102400	143360	eSTORE <a href="#">512-2800-O</a>
11	563,2	280	200	112400	157696	eSTORE 563-3080-O
12	614,4	280	200	122880	172032	eSTORE 614-3360-O

<b>Battery module RB 512-100-R</b>						
<b>No. of modules</b>	<b>Voltage[V]</b>	<b>Capacity[Ah]</b>	<b>Current[A]</b>	<b>Nominal Power[W]</b>	<b>Capacity[Wh]</b>	<b>Order code</b>
13	665,6	280	200	133120	186368	eSTORE 665-3640-O

## Freestanding-modular Batteries

<b>Description</b>	<b>Voltage[V]</b>	<b>Capacity [kWh]</b>	<b>Code</b>	<b>Mounting</b>
LiFePO4 High Voltage	230.4	11.52	<a href="#">RBG3-01-F</a>	Freestanding (modular)
LiFePO4 High Voltage	307.2	15.36	<a href="#">RBG4-01-F</a>	Freestanding (modular)
LiFePO4 High Voltage	384	19.20	<a href="#">RBG5-01-F</a>	Freestanding (modular)
LiFePO4 High Voltage	614.4	30.72	<a href="#">RBG8-01-F</a>	Freestanding (modular)

**\*Each battery needs its own xEMS controller**

## Energy Management

<b>Description</b>	<b>Code</b>	<b>Mounting</b>
xEMS compact controller	<a href="#">xEMS-C-01</a>	Wall
xEMS compact controller - Isolated RS485	xEMS-C-01-MB	Wall
xEMS controller - Modular	xEMS-M-01	Wall
<b>Wireless extension modules</b>		<b>Code</b>
Wireless Modbus-to-Modbus bridge		<a href="#">WM-1</a>
Wireless Modbus relay		<a href="#">WR-1</a>
Wireless modbus 5 relay, 1 digital input, 1 temperature input		<a href="#">WR-5</a>
<b>Optional Power Sensors</b>		<b>Code</b>
1-phase power sensor, DIN rail		<a href="#">PM1-E-D</a>
1-phase power sensor, DIN rail, CT		<a href="#">PM1-E-D-CT</a>
3-phase power sensor, DIN rail		<a href="#">PM3-E-D</a>
3-phase power sensor, DIN rail, CT		<a href="#">PM3-E-D-CT</a>
1-phase split core current transformer,50A		<a href="#">CT1-E-50</a>
3-phase split core current transformer,50A,100A, 250A, 400A		<a href="#">CT3-E-XX</a>

## Software

### Special parameters setting for EMS functionality with Robotina xEMS systems