Robotina d.o.o.
OIC Hrpelje 38
SI-6240 Kozina
Slovenia

! THE PAGE IS UNDER CONSTRUCTION !

1. Hardware

2. Low voltage system building blocks

2.1. Hybrid Inverters

Description	Grid	Battery	Power [kW]	Code	Mounting
Low voltage hybrid inverter (Deye)	3-phase	LV	10	lv-10-3p-01	wall
Low voltage hybrid inverter (Deye)	3-phase	LV	12	lv-12-3p-01	wall
Low voltage hybrid inverter (Deye)	1-phase	LV	8	lv-08-1p-01	wall

2.2. Batteries

Description	Voltage	Ah	Capacity [kWh]	Code	Mounting
LiFePO4 LV battery module	51.2	200	10.2	rb_512-200-w	wall
LiFePO4 LV battery module	51.2	280	14.3	rb_512-280-w	wall

3. High voltage system building blocks

3.1. Hybrid Inverters

Description	Grid	Battery	Power [kWh]	Code	Mounting
High voltage hybrid inverter (Deye)	3-phase	HV	10	hv-10-3p-01	wall
High voltage hybrid inverter (Deye)	3-phase	HV	15	hv-15-3p-01	wall
High voltage hybrid inverter (Deye)	3-phase	HV	20	hv-20-3p-01	wall
High voltage hybrid inverter (Deye)	3-phase	HV	30	hv-30-3p-01	wall
High voltage hybrid inverter (Deye)	3-phase	HV	50	hv-50-3p-01	wall

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Description	Grid	Battery	Power [kWh]	Code	Mounting
High voltage hybrid inverter (Deye)	3-phase	HV	60	hv-60-3p-01	wall
High voltage hybrid inverter (Deye)	3-phase	HV	70	hv-70-3p-01	wall
High voltage hybrid inverter (Deye)	3-phase	HV	75	hv-75-3p-01	wall
High voltage hybrid inverter (Deye)	3-phase	HV	80	hv-80-3p-01	wall

3.2. 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-O	eSTORE 410-800-50-O
9	460,8	100	100	46080	46080	eSTORE 461-900-30-O	eSTORE 461-900-50-O
10 (recomended)	512	100	100	51200	51200	estore_512-1000-30-o	estore_512-1000-50-o
11	563,2	100	100	56320	56320	eSTORE 563-1100-30-O	eSTORE 563-1100-50-O
12	614,4	100	100	61440	61440	eSTORE 614-1200-30-O	eSTORE 614-1200-50-O
13	665,6	100	100	66560	66560	eSTORE 665-1300-30-O	eSTORE 665-1300-50-O
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-O	eSTORE 410-1600-60-O
9	460,8	200	100	46080	92160	eSTORE 461-1800-50-O	eSTORE 461-1800-60-O
10 (recomended)	512	200	100	51200	102400	estore_512-2000-50-o	estore_512-2000-60-o
11	563,2	200	100	56320	112640	eSTORE 563-2200-50-O	eSTORE 563-2200-60-O
12	614,4	200	100	61440	122880	eSTORE 614-2400-50-O	eSTORE 614-2400-60-O
13	665,6	200	100	66560	133120	eSTORE 665-2600-50-O	eSTORE 665-2600-60-O
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-O	eSTORE 410-2240-75-O
9	460,8	280	200	92160	129024	eSTORE 461-2520-60-O	eSTORE 461-2520-75-O
10 (recomended)	512	280	200	102400	143360	estore_512-2800-60-o	estore_512-2800-75-o
11	563,2	280	200	112400	157696	eSTORE 563-3080-60-O	eSTORE 563-3080-75-O
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

3.3. eSTORE High Voltage batteries (HV Battery rack

without inverter)

Battery module rb_512-100-r						
No. of modules	**Voltage[V]**	**Capacity[Ah]**	**Current[A]**	**Nominal Power[W]**	**Capacity[Wh]**	**Order code**
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_512-1000-o
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
Battery module rb_512-200-r						
No. of modules	**Voltage[V]**	**Capacity[Ah]**	**Current[A]**	**Nominal Power[W]**	**Capacity[Wh]**	**Order code**
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_512-2000-o
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
Battery module rb_512-280-r						
No. of modules	**Voltage[V]**	**Capacity[Ah]**	**Current[A]**	**Nominal Power[W]**	**Capacity[Wh]**	**Order code**
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_512-2800-o
11	563,2	280	200	112400	157696	eSTORE 563-3080-O
12	614,4	280	200	122880	172032	eSTORE 614-3360-O
13	665,6	280	200	133120	186368	eSTORE 665-3640-O

3.4. HV eSTORE - Liquid colling

No. of modules	Voltage[V]	Capacity[Ah]	Current[A]	Nominal Power[W]	Capacity[Wh]	Inverter	Order code
1	832	314	180	125000	261200	2× 62,3 kW	estore_832-314-125-o

3.5. Freestanding-modular Batteries

Description	Voltage[V]	Capacity [kWh]	Code	Mounting
LiFePO4 High Voltage	230.4	11.52	rbg3-01-f	Freestanding (modular)
LiFePO4 High Voltage	307.2	15.36	rbg4-01-f	Freestanding (modular)
LiFePO4 High Voltage	384	19.20	rbg5-01-f	Freestanding (modular)
LiFePO4 High Voltage	614.4	30.72	rbg8-01-f	Freestanding (modular)

3.5.1. *Each battery needs its own xEMS controller

3.6. Energy Management

Description	Code	Mounting
xEMS compact controller	xems-c-01	Wall
xEMS compact controller - Isolated RS485	xEMS-C-01-MB	Wall
xEMS controller - Modular	xEMS-M-01	Wall
Wireless extension modules		**Code**
Wireless Modbus-to-Modbus bridge		wm-1
Wireless Modbus relay		wr-1
Wireless modbus 5 relay, 1 digital input, 1 temperature input		wr-5
Optional Power Sensors		**Code**
1-phase power sensor, DIN rail		pm1-e-d
1-phase power sensor, DIN rail, CT		pm1-e-d-ct
3-phase power sensor, DIN rai		pm3-e-d
3-phase power sensor, DIN rail, CT		pm3-e-d-ct
1-phase split core current transformer,50A		ct1-e-50
3-phase split core current transformer,50A,100A, 250A, 400A		ct3-e-xx

3.7. Software

3.7.1. Special parameters setting for EMS functionality with Robotina xEMS systems