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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	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
Low voltage hybrid inverter (Deye)	1-phase	LV	12	LV-12-1P-01	wall
Low voltage hybrid inverter (Deye)	1-phase	LV	16	LV-16-1P-01	wall

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

High voltage system building blocks

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

Description	Grid	Battery	Power [kWh]	Code	Mounting
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
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

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	eSTORE 410-800-50
9	460,8	100	100	46080	46080	eSTORE 461-900-30	eSTORE 461-900-50
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	eSTORE 563-1100-50
12	614,4	100	100	61440	61440	eSTORE 614-1200-30	eSTORE 614-1200-50
13	665,6	100	100	66560	66560	eSTORE 665-1300-30	eSTORE 665-1300-50
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	eSTORE 410-1600-60
9	460,8	200	100	46080	92160	eSTORE 461-1800-50	eSTORE 461-1800-60
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	eSTORE 563-2200-60
12	614,4	200	100	61440	122880	eSTORE 614-2400-50	eSTORE 614-2400-60
13	665,6	200	100	66560	133120	eSTORE 665-2600-50	eSTORE 665-2600-60
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	eSTORE 410-2240-75
9	460,8	280	200	92160	129024	eSTORE 461-2520-60	eSTORE 461-2520-75
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	eSTORE 563-3080-75

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
12	614,4	280	200	122880	172032	eSTORE 614-3360-60	eSTORE 614-3360-75
13	665,6	280	200	133120	186368	eSTORE 665-3640-60	eSTORE 665-3640-75

eSTORE High Voltage batteries (HV Battery rack without inverter)

Description	Voltage[V]	Capacity [kWh]	Code	Environment
LiFePO4 High Voltage	512	51.2	eSTORE 512-1000-O	Outdoor
LiFePO4 High Voltage	512	102.4	eSTORE 512-2000-O	Outdoor
LiFePO4 High Voltage	512	143	eSTORE 512-2800-O	Outdoor

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	
9	460,8	100	100	46080	46080	eSTORE 461-900	
10 (recommended)	512	100	100	51200	51200	eSTORE 512-1000-O	
11	563,2	100	100	56320	56320	eSTORE 563-1100	
12	614,4	100	100	61440	61440	eSTORE 614-1200	
13	665,6	100	100	66560	66560	eSTORE 665-1300	

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	eSTORE 410-1600-60
9	460,8	200	100	46080	92160	eSTORE 461-1800-50	eSTORE 461-1800-60
10 (recommended)	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	eSTORE 563-2200-60
12	614,4	200	100	61440	122880	eSTORE 614-2400-50	eSTORE 614-2400-60
13	665,6	200	100	66560	133120	eSTORE 665-2600-50	eSTORE 665-2600-60

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	eSTORE 410-2240-75
9	460,8	280	200	92160	129024	eSTORE 461-2520-60	eSTORE 461-2520-75
10 (recommended)	512	280	200	102400	143360	eSTORE 512-2800-60-O	eSTORE 512-2800-75-O

Battery module RB 512-100-R							
No. of modules	Voltage[V]	Capacity[Ah]	Current[A]	Nominal Power[W]	Capacity[Wh]	Order code	
11	563,2	280	200	112400	157696	eSTORE 563-3080-60	eSTORE 563-3080-75
12	614,4	280	200	122880	172032	eSTORE 614-3360-60	eSTORE 614-3360-75
13	665,6	280	200	133120	186368	eSTORE 665-3640-60	eSTORE 665-3640-75

Battery Modules

Description	Voltage	Ah	Capacity [kWh]	Code	Mounting
LiFePO4 LV battery module	51.2	100	5.1	RB 512-100-R	rack
LiFePO4 LV battery module	51.2	200	10.2	RB 512-200-R	rack
LiFePO4 LV battery module	51.2	280	14.3	RB 512-280-R	rack

Freestanding-modular Batteries

Description	Voltage[V]	Capacity [kWh]	Code	Mounting
LiFePO4 High Voltage	230.4	11.52	BA-G3-01-F	Freestanding (modular)
LiFePO4 High Voltage	307.2	15.36	BA-G4-01-F	Freestanding (modular)
LiFePO4 High Voltage	384	19.20	BA-G5-01-F	Freestanding (modular)
LiFePO4 High Voltage	614.4	30.72	BA-G8-01-F	Freestanding (modular)

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

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 rail		PM3-E-D

Optional Power Sensors	Code
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

Software

Special parameters setting for EMS functionality with Robotina xEMS systems

[RBHV 512-200-RA](#)

[RBHV 512-200-RA-O](#)

[RBHV 512-100-RA](#)

[RBHV 512-100-RA-O](#)