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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]				
8	409,6	100	100	40960	40960				
9	460,8	100	100	46080	46080				
10 (recomended)	512	100	100	51200	51200				
11	563,2	100	100	56320	56320				
12	614,4	100	100	61440	61440				
13	665,6	100	100	66560	66560				
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		
12	614,4	280	200	122880	172032	eSTORE 614-3360-60	eSTORE 614-3360-75		

Battery module RB 512-100-R							
No. of modules	Voltage[V]	Capacity[Ah]	Current[A]	Nominal Power[W]	Capacity[Wh]		
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
3-phase power sensor, DIN rail, CT		PM3-E-D-CT
1-phase split core current transformer, 50A		CT1-E-50

Optional Power Sensors	Code
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](#)