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	Capacity	Code	Mounting
Low voltage hybrid inverter (Deye)	3-phase	LV	10 kVA	LV-10-3P-01	wall
Low voltage hybrid inverter (Deye)	3-phase	LV	12 kVA	LV-12-3P-01	wall
Low voltage hybrid inverter (Deye)	1-phase	LV	8 kVA	LV-08-1P-01	wall
Low voltage hybrid inverter (Deye)	1-phase	LV	12 kVA	LV-12-1P-01	wall
Low voltage hybrid inverter (Deye)	1-phase	LV	16 kVA	LV-16-1P-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	Capacity	Code	Mounting
High voltage hybrid inverter (Deye)	3-phase	HV	10 kVA	HV-10-3P-01	wall
High voltage hybrid inverter (Deye)	3-phase	HV	15 kVA	HV-15-3P-01	wall
High voltage hybrid inverter (Deye)	3-phase	HV	20 kVA	HV-20-3P-01	wall
High voltage hybrid inverter (Deye)	3-phase	HV	30 kVA	HV-30-3P-01	wall

Description	Grid	Battery	Capacity	Code	Mounting
High voltage hybrid inverter (Deye)	3-phase	HV	50 kVA	HV-50-3P-01	wall
High voltage battery inverter	3-phase	HV	215 kVA	HV-375-3P-01	standing IP54
High voltage battery inverter	3-phase	HV	430 kVA	HV-430-3P-01	standing IP54
High voltage battery inverter	3-phase	HV	1075 kVA	HV-1075-3P-01	standing IP54

3.2. eSTORE all in one solution (Battery rack with inverter)

Rack module RB 512-100-R						Order code	
No. of modules	Voltage[V]	Capacity[Ah]	Current[A]	Nominal Power[W]	Capacity[W]	Inverter HV-30-3P-01	Inverter HV-50-3P-01
8	409,6	800	100	40960	40960	eSTORE 410-800-30	
9	460,8	900	100	46080	46080	eSTORE 410-900-30	
10	512	1000	100	51200	51200	eSTORE 410-1000-30	
11	563,2	1100	100	56320	56320	eSTORE 410-1100-30	
12	614,4	1200	100	61440	61440	eSTORE 410-1200-30	
13	665,6	1300	100	66560	66560	eSTORE 410-1300-30	

3.2.1. Rack 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

3.3. Freestanding-modular Batteries

Description	Voltage[V]	Capacity [kWh]	Code	Mounting
LiFePO4 High Voltage	153.6	11.52	RBG3-01-F	Freestanding (modular)
LiFePO4 High Voltage	204.8	15.36	RBG4-01-F	Freestanding (modular)
LiFePO4 High Voltage	256	19.20	RBG5-01-F	Freestanding (modular)
LiFePO4 High Voltage	409.6	30.72	RBG8-01-F	Freestanding (modular)

3.3.1. *Each battery needs its own xEMS controller

3.4. 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

3.5. Software

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