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Power Storage Module

PSM 10 kWh / 4 kW
PSM 15 kWh / 6 kW
PSM 15 kWh / 12 kW

Multi-purpose energy storage

- Compatible with the EnergyHub system
- Ready for back-up and off-grid operation
- Safe and long-life LiFePO4 technology
- High power capacity
- Integrated DC/DC converter

DC coupled energy storage

The Power Storage Module with storage capacity up to 15 kWh and power rating up to 12 kW connects directly to your EnergyHub system DC nanogrid. The versatile storage can be configured to reduce peak power in your building, enable faster Electric Vehicle charging and store your solar energy. The system is ready for back-up and off-grid operation with a suitable EnergyHub inverter.

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PSM 10/4, 15/6, 15/12

	DC coupled energy storage		
Battery	**PSM 10/4** [3]	**PSM 15/6**	**PSM 15/12**
Storage capacity, W_{NOM}	10 kWh	15 kWh	15 kWh
Maximum power rating, P_{MAX}	4 kW	6 kW	12 kW
Battery voltage, V_{NOM}	410 V	614 V	
Maximum cont. battery charge current, I_{BAC} [1]	20 A		
Maximum cont. battery discharge current, I_{BAD} [1]	20 A		
Electrical roundtrip efficiency incl. DC/DC converter	93 % typical		
Cycle life [2]	6000 cycles @ 80% DOD, EOL capacity 70%		
Cell chemistry	LiFePO4		
Maximum battery potential to ground	1000 Vpk		
Battery fuses	20 A, 1000 V, 10x38 mm gPV		
SOC precision	≤ 5 %		
Standby consumption incl. DC/DC converters	≤ 5 W		≤ 10 W
Protection functions	Over voltage, over temperature, over current, isolation fault, pre-charge protection, short-circuit protection		
DC-nanogrid			
Number of included ESO DC/DC converters	1		2
DC bus voltage, V_{DC}	760 V (nominal)		
DC bus voltage range, V_{DC}	720 - 800		
Maximum DC bus current, $I_{DC(max)}$	10 A	10 A	20 A
DC bus connection	3-wire (DC+, DC-, PE)		
DC bus communication	Narrow band power line communication (PLC)		
Physical			
Dimensions H x W x D	1550 x 630 x 250 mm	2050 x 630 x 250 mm	
Weight	140 kg	210 kg	
Color	Black		
Installation			
Ambient temperature [4]	0°C – 40°C		
Humidity	10 – 90% RH non condensing		
Degree of protection	IP 20		
BMS Power supply	230 VAC, max 40 W		
Compliance			
Battery safety	EN 62619:2017, UN38.3		
LVD	EN 62477-1		
EMC	EN 61000-6-3, EN 61000-6-2		

[1] Maximum battery current will be derated based on temperature and state of charge

[2] Cycle life specified at SOC from 10% - 90%, C-rate of 0.5 and ambient temperature of +25°C

[3] Planned release during Q3 2019

[4] Battery power may be derated for temperatures exceeding +30°C

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