



Power Storage Module

PSM 10 kWh / 4 kW

PSM 12,5 kWh / 5 or 10 kW

PSM 15 kWh / 6 or 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.

	DC coupled energy storage							
Battery (kWh/ kW:kW)	PSM 10/4 ³⁾		PSM 12,5/5:10		PSM 15/6:12			
Storage capacity, W _{NOM}	10 kWh		12,5 kWh		15 kWh			
Maximum power rating, P _{MAX}	4 kW		5 kW		12 kW			
Battery voltage, V _{NOM}	410 V		512V		614V			
Maximum cont. battery charge current, I _{BAC} ¹⁾	10A	10A	20A	10A	20A			
Maximum cont. battery discharge current, I _{BAD} ¹⁾	10 A	10A	20A	10A	20A			
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	≤ 5 W	≤ 10 W	≤ 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	1	2	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	10A	20A			
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

* "Ready for". This feature requires backup / off-grid enabled EnergyHub system

