

	DC coupled energy storage	
Battery	Pylontech 25,9/12	Pylontech 25,9/24
Storage capacity, W_{NOM}	28.8 kWh	28.8 kWh
Useable capacity @ 90% DoD	25.9 kWh	25.9 kWh
Maximum power rating, P_{MAX}	12 kW	24 kW
Nominal battery voltage, V_{NOM}	576 V	576 V
Maximum cont. battery charge current, $I_{\text{BAC}}^{1)}$	40 A	
Maximum cont. battery discharge current, $I_{\text{BAD}}^{1)}$	40 A	
Electrical roundtrip efficiency incl. DC/DC converter	93 % typical	
Cycle life ²⁾	4000 cycles @ 90% DoD, EOL capacity 80%	
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	2	4
DC bus voltage, V_{DC}	760 V (nominal)	
DC bus voltage range, V_{DC}	720 - 800	
Maximum DC bus current, $I_{\text{DC(max)}}$	16 A	32 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	2140 x 600 x 800 mm	2140 x 600 x 800 mm
Weight	380 kg	390 kg
Color	Black	
Installation		
Ambient temperature ³⁾	0°C – 40°C	
Humidity	10 – 90% RH non condensing	
Degree of protection	IP 20	
BMS Power supply	DC nanogrid	
Compliance		
Battery safety	EN 62619, 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) Battery power may be derated for temperatures exceeding +30°C