

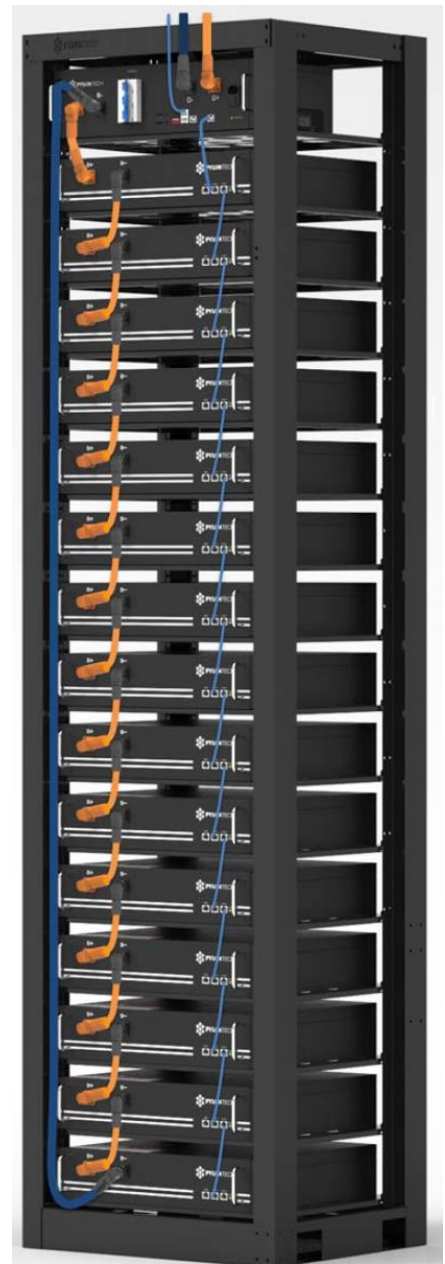
Pylontech Energy Storage

28 kWh / 12 kW

28 kWh / 24 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 Pylontech Energy Storage with storage capacity 28 kWh and power rating up to 24 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	Pylontech 28/12	Pylontech 28/24
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_{BAC} ¹⁾	40 A	
Maximum cont. battery discharge current, I_{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, $I_{DC(max)}$	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