

BAT-79 Battery Energy Storage System



TECHNICAL PROPERTIES		
Power (charge/discharge)	30 kW standard, up to 80 kW	
Nominal energy	79 kWh	
Battery chemistry	Li-ion NMC	
Nominal battery voltage	700 V DC	
Battery voltage range	614-797 V DC	
Grid connection voltage*	3 x 400V AC	
Battery system efficiency**	96,6 %	
Cooling standard	Forced air cooling via heat exchanger (ambient temperature -25°C to 35°C)	
Cooling active - optional	Cooled by air conditioner (ambient temperature -25°C to 45°C)	
Parallel coupling	Ability to couple multiple racks in parallel	
Cabinet	Coated, vandal resilient steel enclosure	
Dimensions	H2180 mm x W846 mm x D723 mm	
Weight	1,083 kg	
Standards	General:	CE: Safety, health and environment
	Transport:	UN38.3
	Battery:	EN 61010-1: 2010 + A1: 2016
	Inverter:	EN 62477-1 (2012)
		EN 61439-1 (2011)
	EN/IEC 61000-6-2	
	EN/ IEC 61000-6-4, class A	
Protection rating	IP55	
Expected life time	15 years	
Performance warranty	10 years / 70 %	

*Higher voltage levels feasible with transformer, **Round-trip efficiency at 100% DoD, 15 kW 25°C



Renewable support functions

Time-shift
Scheduling based on weather, consumption patterns, electricity prices



Power quality features

Load balancing
Harmonic filtering
Reactive power control and power factor correction



Grid support Functions

Frequency support
Voltage support
Peak shaving
Energy arbitrage
Load following





Exchangeable cooling unit for different climate zones

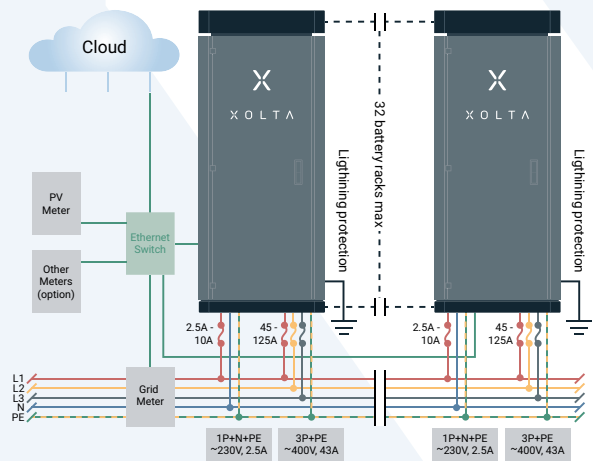
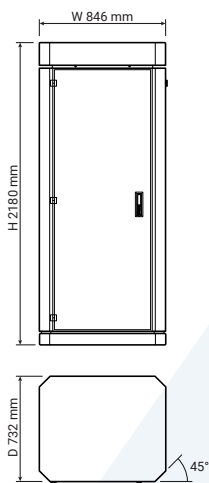
Eyebolts for easy deployment

Insulated, fireproof steel rack

Site-controller for cloud communication, control of battery system and auxiliary units

Detachable foundation for on-site premounting

30 kW integrated inverter



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