

# 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	700V 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	D723mm x W846mm x H2180mm	
Weight	1,083 kg. per rack	
Standards	General:	CE: Safety, health and environment
	Transport:	UN38.3 classification for safe transportation
	Battery:	EN 61010-1: 2010 + A1: 2016 – safety req. battery systems
	Inverter:	EN 62477-1 (2012) safety req. for converters
		EN 61439-1 (2011) inverter general construction and safety EN/IEC 61000-6-2, industrial level – inverter EMC immunity EN/ IEC 61000-6-4, class A – inverter EMC emission
Protection rating	IP55	
Expected life time	15 years	
Performance warranty	10 years / 70%	

\*Higher voltage levels feasible with transformer, \*\*100% DoD, 15kW round-trip efficiency at 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

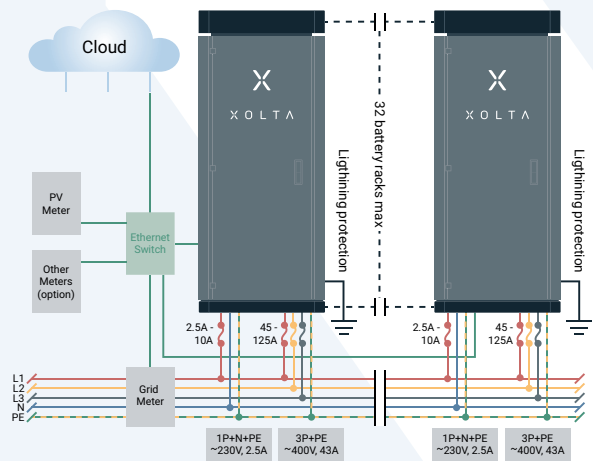
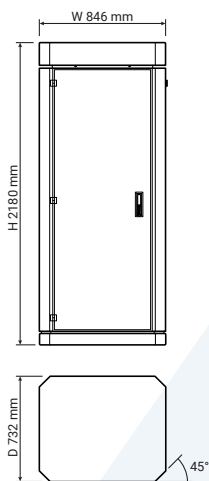
Eyebolts for easy deployment

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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