



BAT-79 Battery Energy Storage System



TECHNICAL PROPERTIES	1 RACK	MAX 32 RACKS
		
Power (charge/discharge)	30 kW standard, up to 80 kW	960 kW standard, up to 2.56 MW
Nominal energy	79 kWh	2.53 MWh
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%	
Ambient temperature	15°C - 25°C recommended	
Cooling standard	Forced air cooling	
Cabinet	Coated, lockable steel enclosure	
Dimensions	D655mm x W660mm x H1895mm	
Weight	800 kg. per rack	
Standards	CE: Safety, health and environment	
	General:	UN38.3 classification for safe transportation
	Transport:	EN 61010-1: 2010 + A1: 2016 – safety req. battery systems
	Battery:	EN 62477-1 (2012) safety req. for converters
	Inverter:	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	IP21	
Expected life time	15 years	
Warranty	10 years	

*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





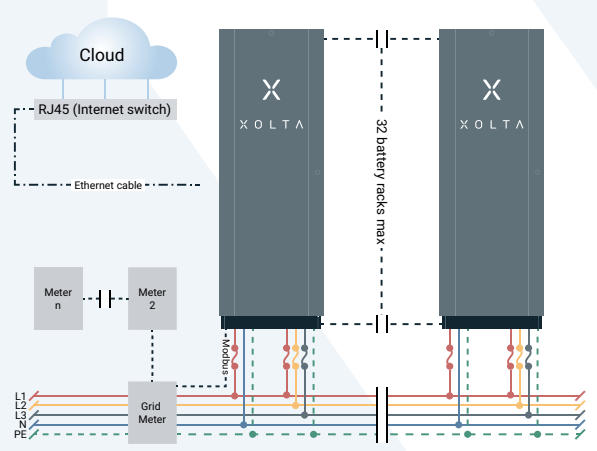
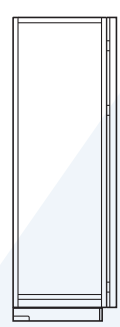
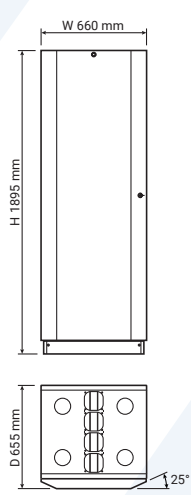
Site-controller for cloud communication, control of battery system and auxiliary units



Fireproof steel rack

State-of-the-art battery management system (BMS) assuring voltage and temperature monitoring for each individual battery cell

Sleek design for simple indoor installation in narrow spaces



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