



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		-25°C to 45°C
Cooling standard		Forced air cooling via heat exchanger
Cooling active		Cooled by air conditioner
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
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





Exchangeable cooling unit
for different climate zones

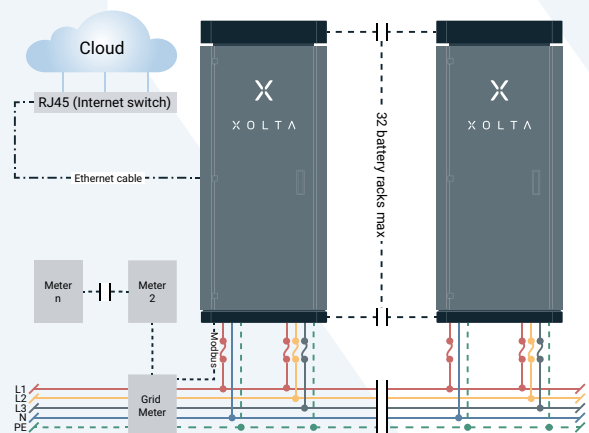
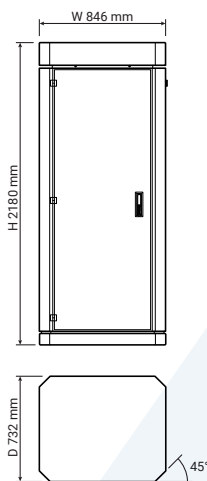
Eyebolts for easy deployment

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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