

POWER BLOXX

The modular energy storage system of the future



E-Mobility



Drive System



Energy Storage Systems



Power- and Gardentools



Industrial



Medical

The new standard

THE AC-COUPLED BATTERY ENERGY STORAGE SYSTEM IN AIR-CONDITIONED OUTDOOR CABINET

The perfect companion for trade and industry ensures that self-consumption is optimized.



TECHNICAL DETAILS

Applications

- Self-consumption optimization
- Peak shaving
- Zero feed-in
- Emergency power systems

Easy to install

- “Plug and Play” container solution – only modules need to be equipped on-site according to the needed capacity
- Just 22 kg module weight
- Commissioning by one person

Highly flexible

- Energy from 153 up to 612 kWh usable
- Power from 50 to 300 kW
- AC-Battery or PV-Hybrid possible
- Battery backup integrated
- For outdoor operation

Basic parameters	Container Systems	
	10ft	20ft
Energy (usable)	153 – 204 kWh	255 – 612 kWh
Nominal voltage	409 V	409 V
End-of-charge voltage	448 V	448 V
Final discharge voltage	358 V	358 V
Capacity (usable)	249 – 498 Ah	623 – 1.495Ah
Charging current (max.)	174 – 348 A	435 – 1.044 A
Discharge current peak (3s)	240 – 480 A	600 – 1.144 A
Discharge current (nom.)	180 – 360 A	450 – 1.080 A
Discharge power peak	40 – 80 kW	120 – 140 kW
Discharge power (max.)	48 – 96 kW	144 – 288 kW
Discharge depth	73 % DOD (in relation to nom. capacity)	
Full Cycles	5,500 (for residual capacity of 60 %)	
Optional PV (max.)	75 – 150 kWp	225 – 450 kWp
Optional PV input current (max.)	4 – 8 MPPT's each 30 A	12 – 24 MPPT's each 30 A
Optional PV MPPT voltage range	200 – 850 V	
Rated AC voltage	3L/N/PE; 220/380 V; 230/400 V; 240/415 V	
Max. AC output current per inst. inverter	83 – 166 A	249 – 498 A
UPS switching time	< 20 ms	
Operating altitude (max.)	2,000 m above sea level	
Ambient operating temperature (air conditioning)	-20 – 50 °C	
Corrosion protection (paint)	C3	
Enclosure Protection Rating	IP55	
Max. Weight	4,328 kg	10,680 kg
Dimensions (W x H x D)	3.06 x 2.90 x 2.44 m	6.06 x 2.90 x 2.44 m
Communication interfaces	CAN / RS-485 / Ethernet	
Certifications	IEC62619 / CE / UN38.3 / EN61439 / EN62109 / VDE-AR-N 4105	
Applications	On Grid / On Grid + Backup / Off Grid	
Warranty	10 Years	

Modul-Typ	Helios 1.4
Cell type	BMZ NCA 18650
Configuration	14s20p
Dimensions (W x H x D)	545 x 156 x 214 mm
Weight	22 kg

SYSTEM CONFIGURATION

Number of Racks	Energy [kWh] usable	Container size					
		20 ft	20 ft	20 ft	20 ft	20 ft	20 ft
12	612	20 ft	20 ft	20 ft	20 ft	20 ft	20 ft
11	561	20 ft	20 ft	20 ft	20 ft	20 ft	20 ft
10	510	20 ft	20 ft	20 ft	20 ft	20 ft	20 ft
9	459	20 ft	20 ft	20 ft	20 ft	20 ft	20 ft
8	408	20 ft	20 ft	20 ft	20 ft	20 ft	20 ft
7	357	20 ft	20 ft	20 ft	20 ft	20 ft	20 ft
6	306	20 ft	20 ft	20 ft	20 ft	20 ft	20 ft
5	255	20 ft	20 ft	20 ft	20 ft	20 ft	20 ft
4	204	10 ft	10 ft	20 ft	20 ft	20 ft	20 ft
3	153	10 ft	10 ft	20 ft	20 ft	20 ft	20 ft
AC output		50 kW	100 kW	150 kW	200 kW	250 kW	300 kW
Number of Inverter		1	2	3	4	5	6
max. PV input power		75 kWp	150 kWp	225 kWp	300 kWp	375 kWp	450 kWp

recommended
 upon request



Learn more at powerbloxx.bmz-group.com



Any questions?

Contact us, we will be pleased to advise you.

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