

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

- Optimization of self-consumption
- Peak load reduction
- Zero feed-in
- Emergency power systems

Highly flexible

- Energy from 68 up to 408 kWh usable
- Power from 50 to 300 kW
- AC-Battery or PV-Hybrid possible
- Battery backup integrated
- For outdoor operation

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

Basic parameters	Container Systems	
	10ft	20ft
Energy (usable)	68 – 204 kWh	170 – 408 kWh
Nominal voltage	409 V	409 V
End-of-charge voltage	448 V	448 V
Final discharge voltage	358 V	358 V
Capacity (usable)	81 – 492 Ah	410 – 984 Ah
Charging current (max.)	116 – 348 A	290 – 696 A
Discharge current peak (3s)	160 – 480 A	400 – 960 A
Discharge current (nom.)	120 – 360 A	300 – 720 A
Discharge power peak	60 – 120 kW	180 – 360 kW
Discharge power (max.)	50 – 100 kW	150 – 300 kW
Discharge depth	72 % 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 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	7,356 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					
		10 ft	10 ft	20 ft	20 ft	20 ft	20 ft
12	408			20 ft	20 ft	20 ft	20 ft
11	374			20 ft	20 ft	20 ft	20 ft
10	340			20 ft	20 ft	20 ft	20 ft
9	306			20 ft	20 ft	20 ft	
8	272			20 ft	20 ft	20 ft	
7	238			20 ft	20 ft		
6	204	10 ft	10 ft	20 ft	20 ft		
5	170	10 ft	10 ft	20 ft			
4	136	10 ft	10 ft				
3	102	10 ft	10 ft				
2	68	10 ft	10 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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