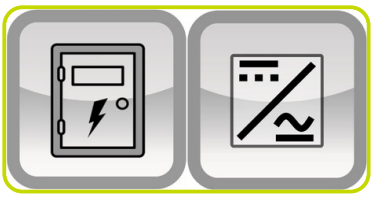
BSC MAX 450/1882/20

FEATURES:

- Pre-installed battery container all-in-one solution – on a reduced footprint
- In-house power and control electronics – Perfectly optimised with maximum safety and efficiency
- State-of-the-art safety technology (monitoring / aerosol / smoke / heat / overpressure flap)
- Latest cell technology – Highest quality, durability and safety
- Scalable performance and capacity
- Energy-optimized air-air battery cooling system for higher efficency
- High accessibility for user-friendly maintenance (max. once a year)
- 10-year performance warranty with a wide temperature range

General technical data		
Rated apparent power	kVA	450
Rated voltage	Vac	400
Frequency	Hz	50
Maximum AC current	A	650
Battery cell	Type	Li-Ion (LFP) Prismatic
Total capacity	kWh	1882
Rated net capacity (95%DoD)	kWh	1788

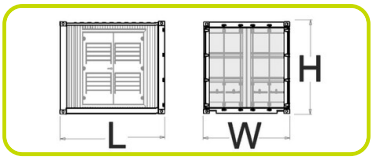
Inverter		
Quantity	n.	5
Rated apparent power	kVA	90
Maximum AC current	A	130
Power factor / Range		1 / 0i ... 0c
Peak current (Ip)	A	320
Initial short circuit current (Ik“)	A	130



Battery		
Quantity of module	n.	120
Module capacity	kWh	15.68
Rated Voltage	V	768
Max. C-rate		0.5C
Battery cell	Type	Li-Ion (LFP) Prismatic
Cycles @ 95% DoD | 65% SoH	n.	7300

Technical data - Energy Management System		
Voltage supply	VDC	24
RJ45 dedicated MAC adresses for OT/IT use	n.	2
Encrypted MQTTS communication		√
Digital cloud twin		√
2-factor authentication		√
Communication Interface Ethernet (Modbus TCP/IP / local and cloud-to-cloud REST API)		√
• **Possible Applications**		:
Self-consumption optimization (SCO)		√
Peak shaving (PS)		√
Time-based charging/discharging (ToU)		√
Combined operation (multi-use e.g. PS and SCO)		√
Energy trading		√
Simple management of charging stations		√
Load management and prioritisation for charging points		√
Integration of Plant controllers		√

Installation data		
Cooling capacity (Battery room)	kW	2x9
Heating capacity (Battery room)	kW	2x3
Forced air cooling (Inverter room)		√
AC-Grid connection		3P, PE / TT, TN-C, TN-S
AC-Auxiliary grid connection		3P, N, PE / TT, TN-C-S
Communication Interfaces RJ45 (Ethernet)		√
Dimensions	(L/W/H) mm	6.058×2.438×2.896
Max. permissible installation height	m	3000
Corrosion resistance		C3
Weight	kg	23.100
Pickup points	n.	4
Protection rating (battery room)	IP	54
Operating temperature range	°C	-20~50
Product warranty	Years	10
Performance warranty	Years	10



Safety devices

Permanent monitoring of the battery cells	√
Temperature and smoke sensor	√
Pressure relief flap	√
Aerosol Generator	√

Certificates / Approvals

Battery System
Modul:
UN38.3 / UL 9540A
Battery System: CE / UKCA / UN 38.3 / UN 3536 / IEC 62619 / UL 1973 / UL 9540A / VDE 2510-50 / IEC 61000-6-2 / IEC 61000-6-4

Battery Inverter
EU- Directives:
2014/30/EU / 2014/35/EU / 2011/65/EU / 2015/863/EU
Safety Battery Inverter:
IEC 62109-1 / IEC 62109-2 / IEC 62477-1 / IEC 61439-1 / IEC 61439-2
EMC:
EN 61000-6-2 / EN 61000-6-4 / EN 61000-3-12 / EN 61000-3-11
Grid codes: DIN VDE V 0126-1-1 / VDE AR-N 4105:2018 / VDE AR-N 4110:2023 / C10/C11 / G99/1-9 / TOR Stromerzeugungsanlagen Typ A/B / CEI 0-16, CEI 0-21 / EN 50549-1/-2 / AS4777.2 / NTS 631, UNE 27002

For other grid codes please contact your local sales representative

Optional features	
Optional Energy Meter Ethernet	•
Optional Energy Meter RS485	•
Extension Kit 188 without Rack	•