

BSC 704/948/20



FEATURES:

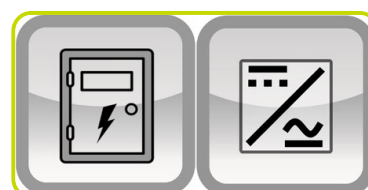
- All-in-one containerised outdoor system including inverter, air conditioning and fire protection equipment
- Battery inverter and energy management system (EMS) perfectly harmonised by in-house development
- Quick & easy installation; components pre-installed, connection of the AC supply line and software-side commissioning
- Separate battery and inverter areas for efficient temperature management monitoring
- Quick setup of compatible devices and intuitive operation in web interface
- High accessibility for user-friendly maintenance (max. once a year)
- 10-year performance warranty with a wide temperature range

General technical data

Rated power	kVA	704
Rated voltage	Vac	400
Frequency	Hz	50
Maximum AC current	A	1024
Battery cell	Type	Li-Ion (LFP) Pouch
Total capacity	kWh	948
Rated net capacity (90%DoD)	kWh	853

Inverter

Quantity	n.	8
Rated power	kVA	88
Maximum AC current	A	128
Power factor / Range		1 / 0i ... 0c
Peak current (Ip) / Initial short circuit current (Ik'') acc. IEC 60690-0	A	128/325



Battery

Quantity of module	n.	200
Module capacity	kWh	4.74
Rated Voltage	V	800
Max. C-rate		1C
Battery cell	Type	Li-Ion (LFP) Pouch
Cycles @ 90% DoD 65% SoH 1C/1C	n.	7300

Technical data - Energy Management System

Voltage supply	VDC	24
RJ45 dedicated MAC addresses 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)		✓

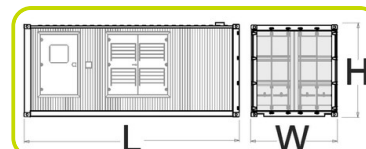
• Possible Applications	:
Self-consumption optimization (SCO)	✓
Peak shaving (PS)	✓
Time-based charging/discharging (ToU)	✓
Combined operation (multi-use e.g. PS and SCO)	✓
Energy trading	✓
Simple management of charging stations	✓
Load management and prioritisation for charging points	✓
Integration of Plant controllers	✓

Installation data

Cooling capacity (Battery room)	kW	18.6
Heating capacity (Battery room)	kW	8.2
Forced air cooling (Inverter room)		✓
AC-Grid connection	3P, PE / TN-C	
AC-Auxiliary grid connection	3P, N, PE / TN-C-S	
Communication Interfaces RJ45 (Ethernet)		✓
Dimensions	(L/W/H) mm	6.000X2.438X2.592
Max. permissible installation height	m	3000
Corrosion resistance		C3
Weight	kg	17200
Pickup points	n.	6
Protection rating (battery room)	IP	65
Protection rating (inverter 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		✓
Fire protection system with Novec 1230		✓
Pressure relief flap		✓



Certificates / Approvals

Battery System

Modul:

UN38.3 / UL 9540A

Battery System:

CE / UN 3536 / IEC 62619 / IEC 63056 / UL 1973 / VDE 2510-50 / EN 61000-6-2 / EN 61000-6-4

Battery Inverter

EU- Directives:

2014/30/EU / 2014/35/EU / 2011/65/EU

Safety Battery Inverter:

IEC 62109-1 / IEC 62109-2 / IEC 62116 / IEC 61727 / 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 4110:2018 / TOR Erzeuger Typ A/B / UTE C15-712 1 VFR 2019 / G99 / EN 50549-1/-2 / CEI0-16 / CEI0-21 / NTS 631, UNE 217002

For other grid codes please contact your local sales representative



Optional features

Optional Router	•
Optional Energy Meter Ethernet	•
Optional Energy Meter RS485	•
Extension Kit 118 without Rack	•
Extension Kit 109 without Rack	•

