

# BSC PWR 630/621/20



## 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 efficiency
- 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  | 630                    |
| Rated voltage                | Vac  | 400                    |
| Frequency                    | Hz   | 50                     |
| Maximum AC current           | A    | 910                    |
| Battery cell                 | Type | Li-Ion (LFP) Prismatic |
| Total capacity               | kWh  | 621                    |
| Rated net capacity (100%DoD) | kWh  | 621                    |



### Inverter

|                                     |     |               |
|-------------------------------------|-----|---------------|
| Quantity                            | n.  | 7             |
| 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           |



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## Battery

|                             |      |                        |
|-----------------------------|------|------------------------|
| Quantity of module          | n.   | 77                     |
| Module capacity             | kWh  | 8.06                   |
| Rated Voltage               | V    | 844.8                  |
| Max. C-rate                 |      | 1C                     |
| Battery cell                | Type | Li-Ion (LFP) Prismatic |
| Cycles @ 100% DoD   65% SoH | 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) |     | ✓  |

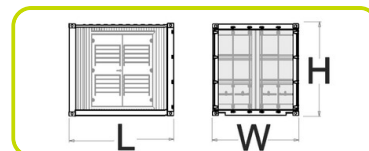


## • Possible Applications

|  |  |   |
|--|--|---|
| 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                      | 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              | 6.058x2.438x2.896 |
| Max. permissible installation height     | m                       | 3000              |
| Corrosion resistance                     |                         | C3                |
| Weight                                   | kg                      | 15.350            |
| 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                         |  | ✓ |



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## Certificates / Approvals

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### Battery System

#### Modul:

UN38.3 / UL 9540A

**Battery System:** CE / UKCA / UN 38.3 / UN 3481 / 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 88.7 without Rack •



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