

BSC MAX 1080/2258/20



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

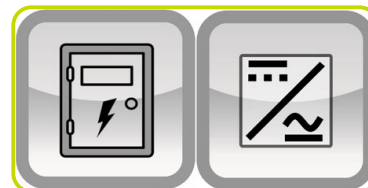
General technical data

| | | |
|-----------------------------|------|------------------------|
| Rated apparent power | kVA | 1080 |
| Rated voltage | Vac | 400 |
| Frequency | Hz | 50 |
| Maximum AC current | A | 1560 |
| Battery cell | Type | Li-Ion (LFP) Prismatic |
| Total capacity | kWh | 2258 |
| Rated net capacity (95%DoD) | kWh | 2145 |



Inverter

| | | |
|---|-----|---------------|
| Quantity | n. | 12 |
| 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 ^{sc}) | A | 130 |



ETOP
creat să reziste

Republica Moldova, MD-2023
mun. Chişinău, str. Uzinelor 90
+ /373/ 67 707 707
office@etop.md
www.etop.md

Battery

| | | |
|----------------------------|------|------------------------|
| Quantity of module | n. | 144 |
| 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 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) | | ✓ |

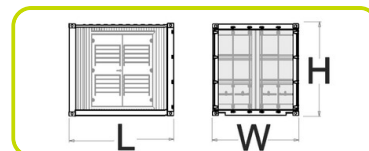


• Possible Applications

| | | |
|--|--|---|
| 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 | 26.300 |
| 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 | | ✓ |



ETOP
creat să reziste

Republica Moldova, MD-2023
mun. Chişinău, str. Uzinelor 90
+ /373/ 67 707 707
office@etop.md
www.etop.md

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 Stromezeugungsanlagen 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 •



ETOP
creat să reziste

Republica Moldova, MD-2023
mun. Chişinău, str. Uzinelor 90
+ /373/ 67 707 707
office@etop.md
www.etop.md