

# SBR096/128/160/192/ 224/256

High Voltage LFP Battery

NEW



## HIGH-PERFORMANCE

- Up to 30A continuous charging and discharging current with high efficiency
- Up to 100% usable energy



## SAFETY

- Lithium iron phosphate Battery
- Multi-stages protection design and extensive safety certification



## FLEXIBILITY

- Extendable during lifetime
- Support 3-8 modules per unit, max. 4 units in parallel, 9-100 kWh capacity range



## EASY INSTALLATION

- Compact and light, single person installation
- Plug and play, no cables needed between battery modules



| Type designation                                | SBR096                                                                                         | SBR128                                                                                         | SBR160                                                                                         | SBR192                                                                                           | SBR224                                                                                           | SBR256                                                                                           |
|-------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Technical properties                            | <br>3 modules | <br>4 modules | <br>5 modules | <br>6 modules | <br>7 modules | <br>8 modules |
| <b>System Data</b>                              |                                                                                                |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Battery Type                                    | LiFePO4 Prismatic Cell                                                                         |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Battery Module                                  | 3.2 kWh, 33 kg                                                                                 |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Nominal Capacity                                | 9.6 kWh                                                                                        | 12.8 kWh                                                                                       | 16 kWh                                                                                         | 19.2 kWh                                                                                         | 22.4 kWh                                                                                         | 25.6 kWh                                                                                         |
| Energy (usable) <sup>1</sup>                    | 9.6 kWh                                                                                        | 12.8 kWh                                                                                       | 16 kWh                                                                                         | 19.2 kWh                                                                                         | 22.4 kWh                                                                                         | 25.6 kWh                                                                                         |
| Nominal voltage                                 | 192 V                                                                                          | 256 V                                                                                          | 320 V                                                                                          | 384 V                                                                                            | 448 V                                                                                            | 512 V                                                                                            |
| Operating voltage                               | 150 – 219 V                                                                                    | 200 – 292 V                                                                                    | 250 – 365 V                                                                                    | 300 – 438 V                                                                                      | 350 – 511 V                                                                                      | 400 – 584 V                                                                                      |
| Rated DC power                                  | 5.76 kW                                                                                        | 7.68 kW                                                                                        | 9.6 kW                                                                                         | 11.52 kW                                                                                         | 13.44 kW                                                                                         | 15.36 kW                                                                                         |
| Max. charge / discharge power                   | 6.57 kW                                                                                        | 8.76 kW                                                                                        | 10.95 kW                                                                                       | 13.14 kW                                                                                         | 15.33 kW                                                                                         | 17.52 kW                                                                                         |
| Max. charging / discharging current: continuous | 30 A                                                                                           |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Max. charging / discharging current             | 42 A                                                                                           |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Depth of Discharge                              | Max.100 % DOD (settable)                                                                       |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Short circuit current                           | 3500 A                                                                                         |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Display                                         | SOC indicator, status indicator                                                                |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Communication interface                         | CAN                                                                                            |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| <b>Protection</b>                               |                                                                                                |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Over / under voltage protection                 | Yes                                                                                            |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Over current protection                         | Yes                                                                                            |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Over / under temperature protection             | Yes                                                                                            |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| DC breaker                                      | Yes                                                                                            |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| <b>General Data</b>                             |                                                                                                |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Dimensions (W*H*D)                              | 625*545*330 mm                                                                                 | 625*675*330 mm                                                                                 | 625*805*330 mm                                                                                 | 625*935*330 mm                                                                                   | 625*1065*330 mm                                                                                  | 625*1195*330 mm                                                                                  |
| Weight                                          | 114 kg                                                                                         | 147 kg                                                                                         | 180 kg                                                                                         | 213 kg                                                                                           | 246 kg                                                                                           | 279 kg                                                                                           |
| Installation Location                           | Indoor / Outdoor                                                                               |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Mounting method                                 | Floor stand                                                                                    |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Operating ambient temperature range             | Charge: 0 to 50 °C<br>Discharge: -30 to 50 °C                                                  |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Degree of protection                            | IP55                                                                                           |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Allowable relative humidity range               | 0 % to 95 % no condensing                                                                      |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Max. operating altitude                         | Max. 2000 m                                                                                    |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Cooling method                                  | Natural convection                                                                             |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Certificates                                    | CE, CEC, IEC 62619, IEC 62040, UN38.3, VDE 2510-50                                             |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
| Warranty <sup>2</sup>                           | 10 Years                                                                                       |                                                                                                |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |

1: Test conditions: 25 °C, 100 % depth of discharge (DOD), 0.2C charge&discharge

2: Refer to battery warranty letter for conditional application