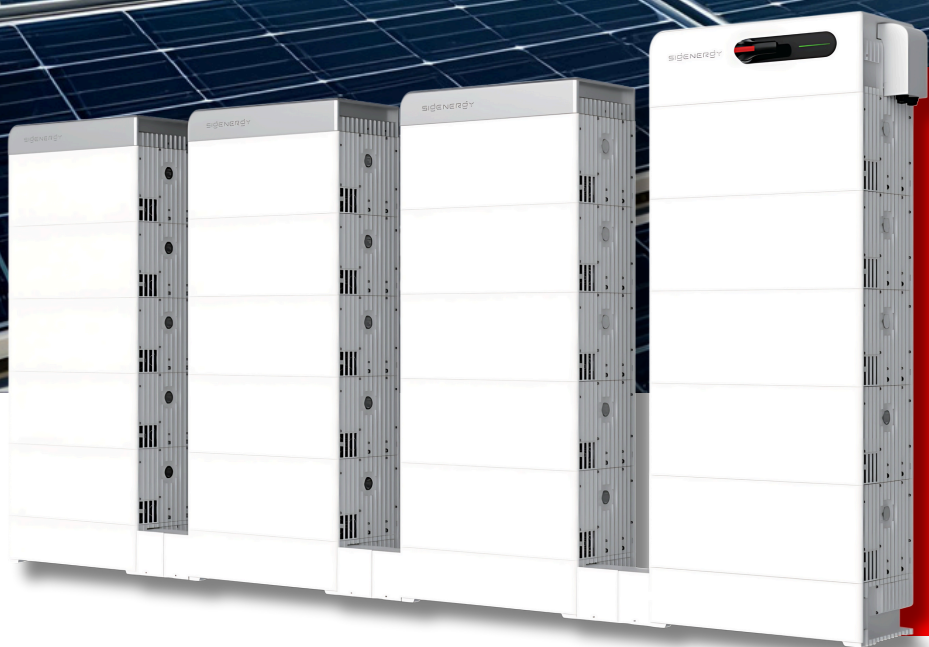


SigenStack

Innovative modular energy
storage system



- Pack-level safety with thermal control
- High energy density saves space
- IP66 rating minimizes maintenance
- Active balancing, no SOC calibration
- Modular, stackable, fast commissioning

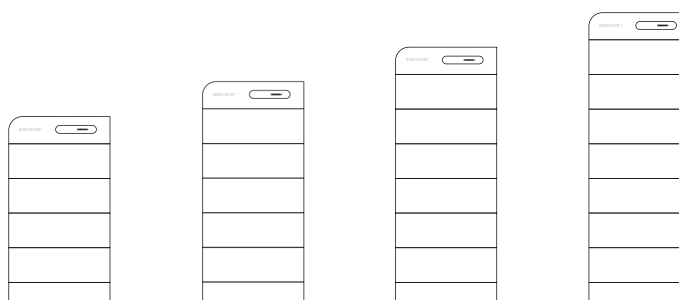
HmT



SIGENERGY

C&I Energy Storage System

| SigenStack BC | M2-0.5C 1 | M2-0.5C-BST | M2-1C-BST | Units |
|---|--|---|-----------|-------|
| Max. output current (to inverter) | | 180 | | A |
| Max. input current (from inverter) | | 180 | | A |
| Operating voltage range | | 550 ~ 1,100 | | V |
| Nominal charge/discharge current of battery | 157 | 157 | 314 | A |
| Weight | 50 | 60 | 60 | kg |
| Dimensions (W / H / D) | | 770 / 248 / 363 | | mm |
| Communication | | CAN | | |
| Compatible inverter | | Sigen C&I Hybrid Inverter Series | | |
| | SigenStack BAT 12.0 | | | Units |
| Performance Specification | | | | |
| Battery type | | LiFePO4 | | |
| Cell capacity | | 314 | | Ah |
| Cycle life ² | | 10,000 | | |
| Total energy capacity per module | | 12.06 | | kWh |
| Weight | | 105 | | kg |
| Dimensions (W / H / D) | | 770 / 300 / 363 | | mm |
| Nominal charge / discharge rate | | 0.5C | | |
| Max. charge / discharge rate | | 1C | | |
| System configuration quantity range | | 4 ~ 21 | | pcs |
| Max. system energy capacity | | 253 | | kWh |
| System General Data | | | | |
| Max. number of modules per stack | | 7 | | pcs |
| Max. number of modules per system | | 21 | | pcs |
| Fire suppression system | | Aerosol, smoke sensor and exhausting system | | |
| Dimensions of base (W / H / D) | | 770 / 195 / 363 | | mm |
| Storage temperature range | | -25 ~ 60 | | °C |
| Operating temperature range | | -20 ~ 55 | | °C |
| Relative humidity range | | 0% ~ 100% | | |
| Max. operating altitude | | 4,000 (Derating at 2,000m) | | m |
| Cooling | | Smart air cooling | | |
| System ingress protection rating | | IP66 | | |
| Installation method | | Floor standing | | |
| Noise ³ | | < 65 | | dB |
| Standard Compliance | | | | |
| Standard ⁴ | IEC/EN 60730-1, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62040, UL9540A | | | |



| | | | | | |
|---------------------------------|-------|------|-------|-------|-----|
| Number of battery modules | 4 | 5 | 6 | 7 | pcs |
| capacity Total energy | 48.24 | 60.3 | 72.36 | 84.42 | kWh |
| and SigenStack BC) Total weight | 500 | 605 | 710 | 815 | kg |
| Total height (with base) | 1,643 | 1,94 | 2,243 | 2,543 | mm |
| Total width | | 3 | 770 | | mm |
| Total depth | | | 363 | | mm |

1. SigenStack BC M2-0.5C can only be used in applications where an on-grid energy storage system with ≥ 20 battery modules operates under 380/400V grid voltage. For other scenarios, please utilize the battery controller with 'BST' model.
2. This is provided by the battery cell manufacturer. Based on cell test condition of $25 \pm 2^\circ\text{C}$, 0.5C charge and discharge rate and SOH=60%.
3. Noise level is tested based on the rated operating conditions (25°C ambient temperature, 0.5CP charge/discharge rate, 400Vac output voltage).
4. For all standards refer to the certificates category on the Sigenenergy website.
5. This document reflects current technology and is subject to change without notice. Refer to the Sigenenergy website for the latest information.

Disclaimer: The information in this file is provided on an "as is" basis. To the fullest extent permitted by law, Sigenenergy Technology Co., Ltd. excludes all representations and warranties relating to this file and its contents or which is or may be provided by any affiliates or any other third party, including in relation to any inaccuracies or omissions in this file.

Text and images correspond to the current state of technology at the time of printing.
All information is without guarantee in spite of careful editing - liability excluded.
All content used within the publication remains the property of the respected manufacturers.