SIGENERGY

# SigenStack

## Innovative modular energy storage system



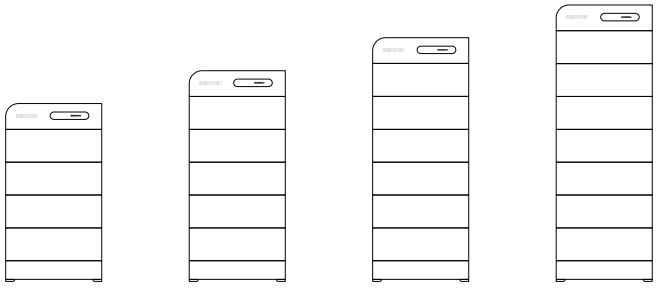
- Pack-level safety protection, precise thermal runaway control
- Higher energy density saves space and eases site selection
- IP66-rated design eliminates regular and complex O&M
- Pack-level active balancing, no need for on-site SOC calibration
- Modular design, stackable installation & ultra-fast commissioning

Enjoy Green Energy

# 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 |
| Nonimal 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 |
|---|---|---|---|---|---|
| Total energy capacity | 48.24 | 60.3 | 72.36 | 84.42 | kWh |
| Total weight | 500 | 605 | 710 | 815 | kg |
| Total height (with base and SigenStack BC) | 1,643 | 1,943 | 2,243 | 2,543 | mm |
| Total width | 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±2°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 Sigenergy website.
5. This document reflects current technology and is subject to change without notice. Refer to the Sigenergy website for the latest information.

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