SIGENERGY

SigenStack

Innovative modular energy storage system



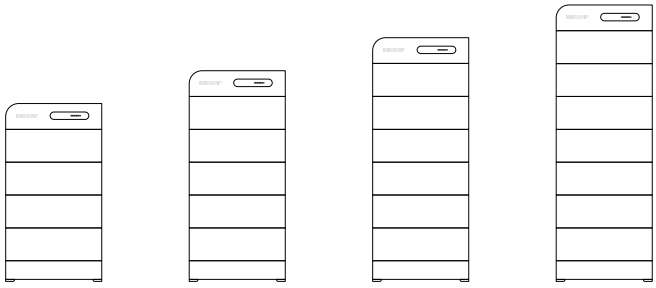
- Pack-level safety protection, precise thermal runaway control
- Higher energy density saves space and eases site selection
- IP66-rated design eliminates regular and complex O&M
- Pack-level active balancing, no need for on-site SOC calibration
- Modular design, stackable installation & ultra-fast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