



SigenStack

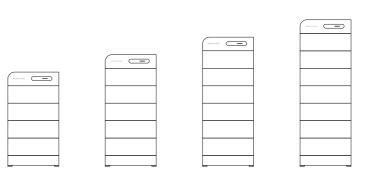
- Modular design, stackable installation, ultra-fast commissioning
- Pack-level safety protection, precise thermal runaway control
- Higher energy density, less footprint, easy site selection
- IP66 protection rating, free of regular & complex O&M

C&I Energy Storage System

SigenStack BC	M2-0.5C	M2-0.5C-BST ¹	M2-1C-BST ¹	Units	
Max. output current (to inverter)	180				
Max. input current (from inverter)	180				
Operating voltage range	550 ~ 1100				
Nonimal charge/discharge current of battery	157	314	А		
Weight	50	60	kg		
Dimensions (W / H / D)	768 / 248 / 363				
Communication	CAN				
Compatible inverter		Sigen Hybrid Inverter Series			
		SigenStack BAT 12.0		Units	

Performance Specification

Battery type	LiFePO4	
Cell capacity	314	Ah
Cycle life ²	10000	
Total energy capacity per module	12.06	kWh
Weight	107	kg
Dimensions (W / H / D)	768 / 300 / 363	mm
Nominal charge / discharge rate	0.5C	
Max. charge / discharge rate	IC	
System configuration quantity range	4 ~ 21	pcs
Max. system energy capacity	253	kWh
System General Data	Aerosal smake sensor and exhausting system	
Fire suppression system	Aerosol, smoke sensor and exhausting system	
Fire suppression system Max. operating altitude	4,000 (Derating at 2,000m)	m
Fire suppression system		m
Fire suppression system Max. operating altitude Cooling	4,000 (Derating at 2,000m) Smart air cooling	m
Fire suppression system Max. operating altitude Cooling System ingress protection rating	4,000 (Derating at 2,000m) Smart air cooling IP66	
Fire suppression system Max. operating altitude Cooling System ingress protection rating Noise	4,000 (Derating at 2,000m) Smart air cooling IP66 < 70	dB
Fire suppression system Max. operating altitude Cooling System ingress protection rating Noise Operating temperature range	4,000 (Derating at 2,000m) Smart air cooling IP66 <70 -20 ~ 55	dB
Fire suppression system Max. operating altitude Cooling System ingress protection rating Noise Operating temperature range Relative humidity range	4,000 (Derating at 2,000m) Smart air cooling IP66 < 70 -20 ~ 55 0% ~ 100%	dB °C
Fire suppression system Max. operating altitude Cooling System ingress protection rating Noise Operating temperature range Relative humidity range Max. number of modules per stack	4,000 (Derating at 2,000m) Smart air cooling IP66 < 70 -20 ~ 55 0% ~ 100% 7	dB °C pcs



Number of battery modules	4	5	6	7	pcs
Total energy capacity	48.24	60.3	72.36	84.42	kWh
Total weight	508	615	722	829	kg
Total height (with base and SigenStack BC)	1,643	1,943	2,243	2,543	mm
Total width	768				
Total depth	363				

1. When the number of battery modules in a system ≤ 19, or in the case of PV + ESS (DC coupling) projects, the battery controller should always utilize the '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. 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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