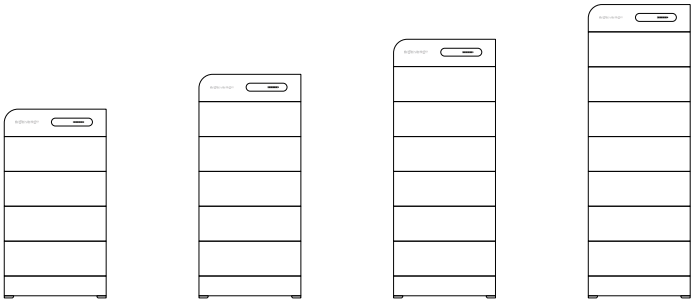
SigenStack

- 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		A
Max. input current (from inverter)		180		A
Operating voltage range		550 ~ 1100		V
Nonimal charge/discharge current of battery	157	157	314	A
Weight	50	60	60	kg
Dimensions (W / H / D)		768 / 248 / 363		mm
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	1C	
System configuration quantity range	4 ~ 21	pcs
Max. system energy capacity	253	kWh
System General Data		
Fire suppression system	Aerosol, smoke sensor and exhausting system	
Max. operating altitude	4,000 (Derating at 2,000m)	m
Cooling	Smart air cooling	
System ingress protection rating	IP66	
Noise	< 70	dB
Operating temperature range	-20 ~ 55	°C
Relative humidity range	0% ~ 100%	
Max. number of modules per stack	7	pcs
Max. number of modules per system	21	pcs
Dimensions of base (W / H / D)	768 / 195 / 363	mm
Installation method	Floor standing	



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			mm
Total depth		363			mm

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.