



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
Compatible number of modules per system	20 ~ 21	4 ~ 20	4 ~ 20	pcs
Operating voltage range		550 ~ 1100		V
Max. 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			

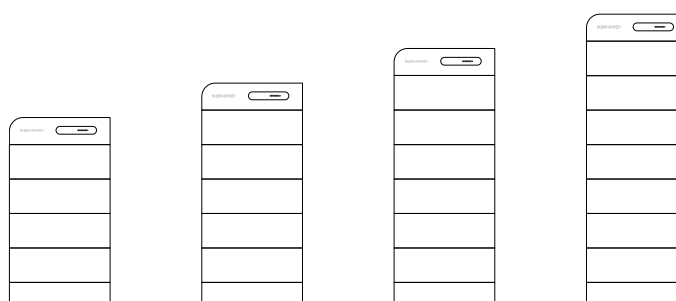
	SigenStack BAT 12.0	Units
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Performance Specification

Battery type	LiFePO4	
Cell capacity	314	Ah
Cycle life ²	10000	
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	
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
Dimensions of base (W / H / D)	770 / 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	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. 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 Sigenenergy website for the latest information.

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