

## Sigen Battery 5.0 / 8.0 kWh

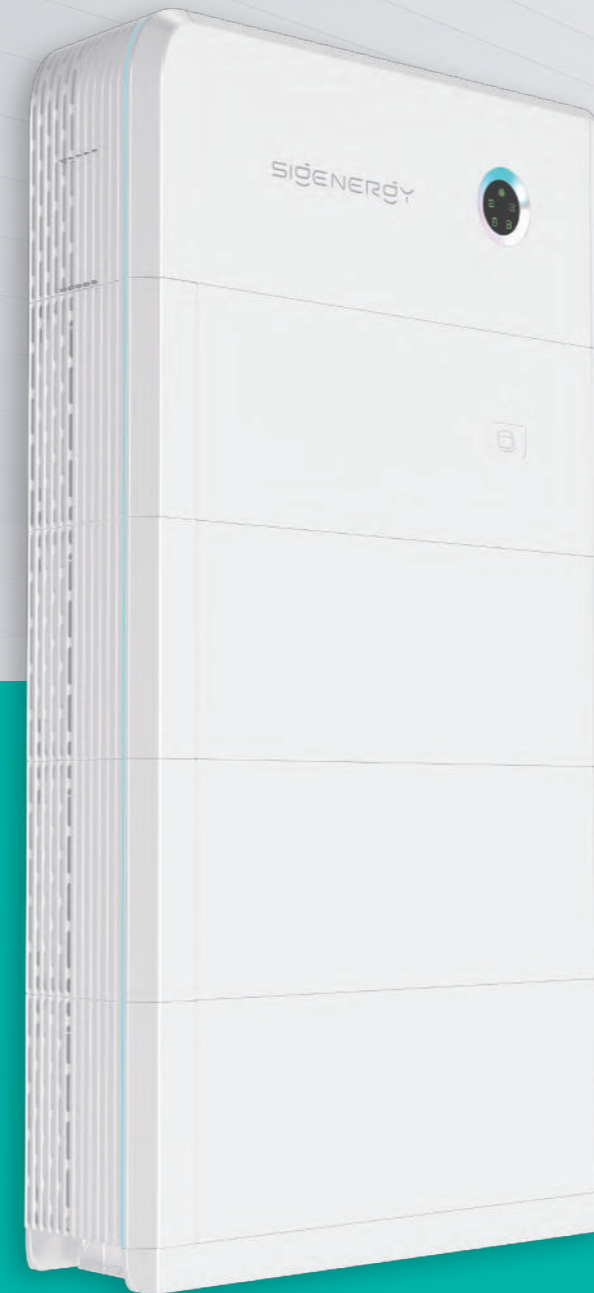
SigenStor BAT	5.0	8.0	Units
<b>Performance Specification</b>			
Battery type	LiFePO <sub>4</sub>		
Total energy capacity	5.38	8.06	kWh
Usable energy capacity <sup>1</sup>	5.2	7.8	kWh
Battery modules voltage range (single phase system)	300 ~ 600		V
Battery modules voltage range (three phase system)	600 ~ 900		V
Max. charge / discharge power	2500	4000	W
Peak charge / discharge power (10 seconds)	3750	6000	W
<b>General Data</b>			
Weight	55	70	kg
Dimensions (W / H / D)	767 / 270 / 260		mm
Storage temperature range	-25 ~ 60		°C
Operating temperature range	-20 ~ 55		°C
Relative humidity range	5% ~ 95%		
Max. operating altitude	4000		m
Cooling	Natural convection		
System ingress protection rating	IP66		
Installation method	Floor standing / Wall-mounted		
<b>Standard Compliance</b>			
Standard	IEC/EN 60730-1, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62040		

1. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C.
2. The combination of SigenStor BAT 8.0 and SigenStor EC single phase as example.



# SigenStor

ENJOY GREEN ENERGY

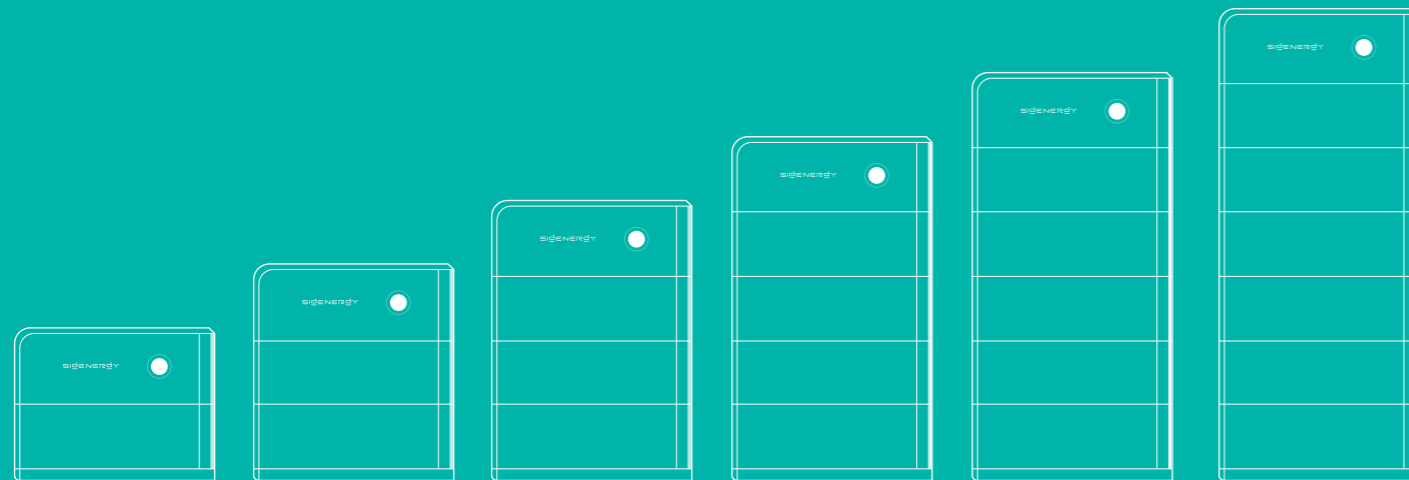


- ▶ Sigen Energy Controller
- ▶ Sigen EV DC Charging Module
- ▶ Sigen Battery

Let numbers talk  
Sigenenergy is raising industry standards

**15 mins** stackable installation    **5 layers** battery protection    **280 Ah** long cycle-life battery cell    **0 ms** switchover time

**5 mins** fast commissioning    **4 layers** system protection    **V2X** bi-directional charging    **1-click** full system diagnosis



## Sigen Energy Controller 3.0–6.0 kW Single Phase

SigenStor EC	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units	
<b>DC Input (from PV)</b>								
Max. PV power	6000	7360	8000	9200	10000	12000	W	
Max. DC input voltage							600	V
Nominal DC input voltage							350	V
Start-up voltage							100	V
MPPT voltage range							50 ~ 550	V
Number of MPP trackers							2	
Number of PV strings per MPPT							1	
Max. input current per MPPT							16	A
Max. short-circuit current per MPPT							20	A
<b>AC Output (on-grid)</b>								
Nominal output power	3000	3680	4000	4600	5000	6000	W	
Max. output apparent power	3300	3680	4400	5000	5500	6600	VA	
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	A	
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	A	
Nominal output voltage							220 / 230 / 240	V
Nominal grid frequency							50 / 60	Hz
Power factor							0.8 leading ~ 0.8 lagging	
Total current harmonic distortion							THDi < 2%	
<b>Efficiency</b>								
Max. efficiency							98.0%	
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%		
<b>AC Output (backup)</b>								
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W	
Nominal output voltage							220 / 230 / 240	V
Nominal output frequency							50 / 60	Hz
Power factor							0.8 leading ~ 0.8 lagging	
Total voltage harmonic distortion							THDv < 2%	
Switch time to backup mode							0	ms
<b>Battery Connection</b>								
Battery module models							SigenStor BAT 5.0 / 8.0	
Number of modules per controller							1 ~ 6	pcs
Battery module voltage range							300 ~ 600	V
<b>General Data</b>								
Dimensions (W / H / D)							700 / 300 / 245	mm
Weight							18	kg
Storage temperature range							-40 ~ 70	°C
Operating temperature range							-30 ~ 60	°C
Relative humidity range							0% ~ 95%	
Max. operating altitude							4000	m
Cooling							Natural convection	
System ingress protection rating							IP66	
Communication							WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)	
<b>Standard Compliance</b>								
Standard <sup>2</sup>							IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2	

1. Need to be used together with Sigen Energy Gateway and Sigen Battery. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Energy Controller is higher than the total power of the home loads.
2. For all standards refer to the certificates category in the Sigenenergy website.

## Sigen Energy Controller 5.0–25.0 kW Three Phase

Preliminary

SigenStor EC	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	Units	
<b>DC Input (from PV)</b>											
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W	
Max. DC input voltage										1100	V
Nominal DC input voltage										600	V
Start-up voltage										180	V
MPPT voltage range										160 ~ 1000	V
Number of MPP trackers				2		3		4			
Number of PV strings per MPPT										1	
Max. input current per MPPT										16	A
Max. short-circuit current per MPPT										20	A
<b>AC Output (on-grid)</b>											
Nominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	W	
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	VA	
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	A	
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	A	
Nominal output voltage										380 / 400	V
Nominal grid frequency										50 / 60	Hz
Power factor										0.8 leading ~ 0.8 lagging	
Total current harmonic distortion										THDi < 2%	
<b>Efficiency</b>											
Max. efficiency										98.4%	
European efficiency										98.0%	
<b>AC Output (backup)</b>											
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W	
Nominal output voltage										380 / 400	V
Nominal output frequency										50 / 60	Hz
Power factor										0.8 leading ~ 0.8 lagging	
Total voltage harmonic distortion										THDv < 2%	
Switch time to backup mode										0	ms
<b>Battery Connection</b>											
Battery module models										SigenStor BAT 5.0 / 8.0	
Number of modules per controller										1 ~ 6	pcs
Battery module voltage range										600 ~ 900	V
<b>General Data</b>											
Dimensions (W / H / D)										700 / 300 / 260	mm
Weight										36	kg
Storage temperature range										-40 ~ 70	°C
Operating temperature range										-30 ~ 60	°C
Relative humidity range										0% ~ 95%	
Max. operating altitude										4000	m
Cooling										Smart air cooling	
System ingress protection rating										IP66	
Communication										WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)	

1. Need to be used together with Sigen Energy Gateway and Sigen Battery. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Energy Controller is higher than the total power of the home loads.