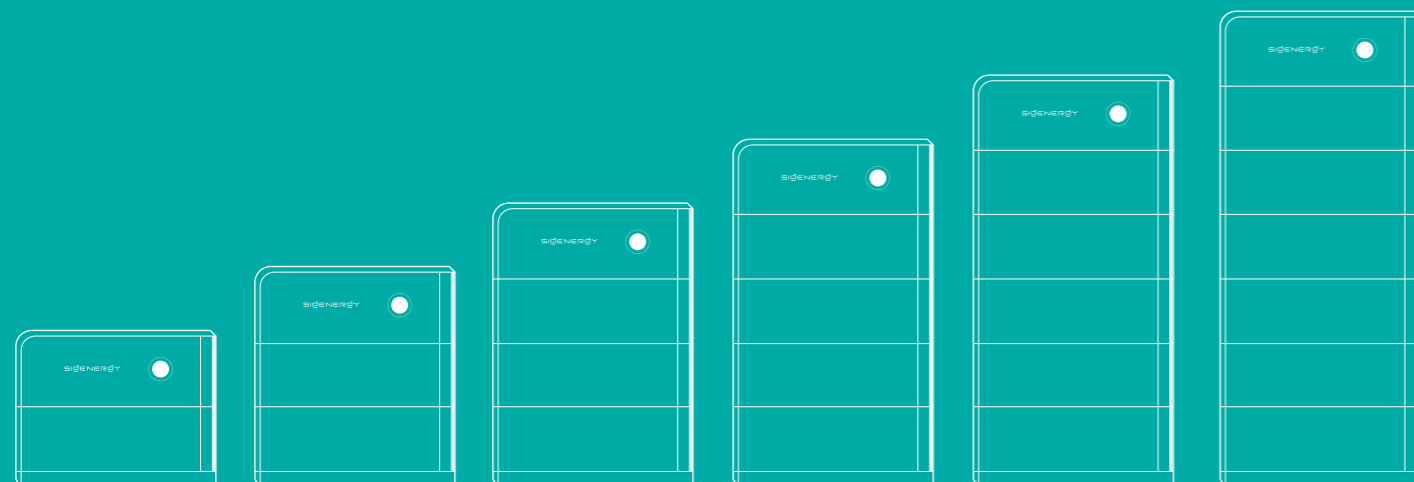


Sigen Battery 5.0 / 8.0 kWh

SigenStor BAT	5.0	8.0	Units
Performance Specification			
Battery type	LiFePO4		
Total energy capacity	5.38	8.06	kWh
Usable energy capacity ¹	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
General Data			
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		
Standard Compliance			
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.



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** load side disruption

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

Simple **Versatile** **Robust** **Intelligent**

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	
DC Input (from PV)								
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
AC Output (on-grid)								
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%	
Efficiency								
Max. efficiency							98.0%	
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%		
AC Output (backup)								
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%	
Disruption time of backup switch ¹							0	ms
Battery Connection								
Battery module models							SigenStor BAT 5.0 / 8.0	
Number of modules per controller							1 ~ 6	pcs
Battery module voltage range							300 ~ 600	V
Protection								
Safety protection feature							DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection, Insulation monitoring, Residual current monitoring, DC/AC surge protection	
General Data								
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)	
Standard Compliance								
Standard ²							IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2	

- This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Energy Controller 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.
- For all standards refer to the certificates category in the Sigen energy 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		
DC Input (from PV)												
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												
Number of PV strings per MPPT												
Max. input current per MPPT											16	A
Max. short-circuit current per MPPT											20	A
AC Output (on-grid)												
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%	
Efficiency												
Max. efficiency											98.4%	
European efficiency											98.0%	
AC Output (backup)												
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%	
Disruption time of backup switch ¹											0	ms
Battery Connection												
Battery module models											SigenStor BAT 5.0 / 8.0	
Number of modules per controller											1 ~ 6	pcs
Battery module voltage range											600 ~ 900	V
Protection												
Safety protection feature											DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection, Insulation monitoring, Residual current monitoring, DC/AC surge protection	
General Data												
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)	
Standard Compliance												
Standard ²											IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2	

- This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Energy Controller 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.