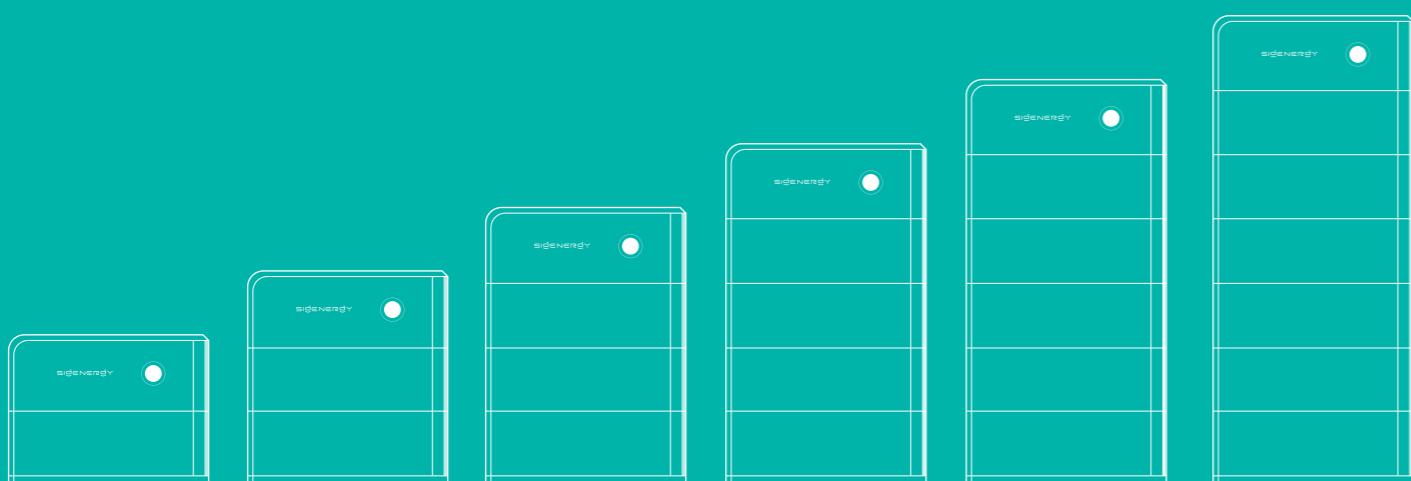


Sigen Battery 5.0 / 8.0 kWh

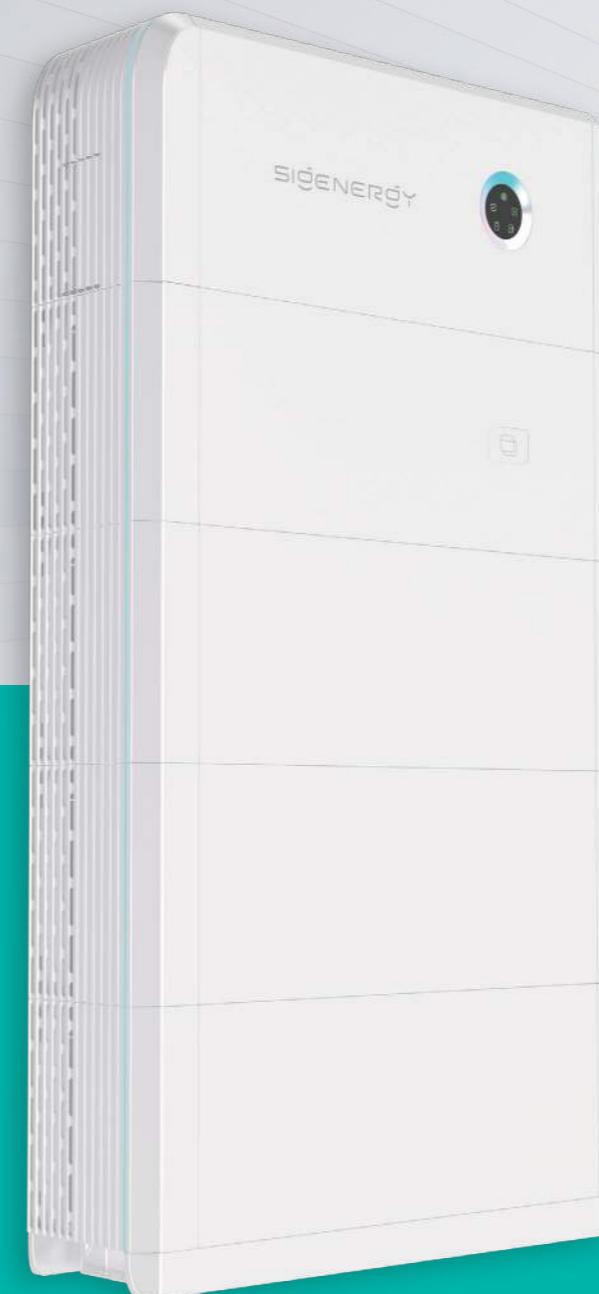
SigenStor BAT	5.0	8.0	Units
Performance Specification			
Battery type	LiFePO4		
Total energy capacity	5.38	8.06	kWh
Usable energy capacity ¹	5.2	7.8	kWh
Battery modules voltage range (single phase system)	300 ~ 600		
Battery modules voltage range (three phase system)	600 ~ 900		
Max. charge / discharge 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		
Storage temperature range	-25 ~ 60		
Operating temperature range	-20 ~ 55		
Relative humidity range	5% ~ 95%		
Max. operating altitude	4000		
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, at the beginning of life.



SigenStor

ENJOY GREEN ENERGY



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

Let numbers talk
Sigenergy 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



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, Insulation monitoring, Residual current monitoring, Type II DC/AC surge protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit 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 Sigenergy website.

Sigen Energy Controller 5.0-25.0 kW Three Phase

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			600				V
Start-up voltage			350			180				V
MPPT voltage range			100			160 ~ 1000				V
Number of MPP. trackers	2				3				4	
Number of PV strings per MPPT	1				1					
Max. input current per MPPT	16				16					A
Max. short-circuit current per MPPT	20				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	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	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, Insulation monitoring, Residual current monitoring, Type II DC/AC surge protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit 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 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.
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