

Sigen Energy Storage System

SigenStor	8S-8	8S-10	8S-13	8S-16	8S-24	8S-32	8S-40	8S-48	Units
DC Input (from PV)									
Max. PV power					16000				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					3				
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					8000				W
Max. output apparent power					8800				VA
Nominal output current					36.4				A
Max. output current					40.0				A
Nominal output voltage					220 / 230				V
Nominal grid frequency					50 / 60				Hz
Power factor					0.8 leading ~ 0.8 lagging				
Total current harmonic distortion					THDi < 2%				
Efficiency									
Max. efficiency					97.6%				
European efficiency					97.0%				
AC Output (backup)¹									
Nominal output power					8000				W
Max. output apparent power					8800				W
Nominal output current					36.4				A
Max. output current					40.0				A
Nominal output voltage					220 / 230				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 ²					0				ms
Battery Connection									
Battery module models					SigenStor BAT 5.0 / 8.0				
Number of battery modules	1	2	2	2	3	4	5	6	pcs
SigenStor BAT 5.0	0	2	1	0	0	0	0	0	pcs
SigenStor BAT 8.0	1	0	1	2	3	4	5	6	pcs
Total energy capacity	8.06	10.76	13.44	16.12	24.18	32.24	40.3	48.36	kWh
Usable energy capacity ³	7.8	10.4	13.0	15.6	23.4	31.2	39.0	46.8	kWh
Depth of discharge ⁴					97%				
Max charging or discharging current	12.0	15.0	19.5	24.0	36.0	48.0	60.0	65.0	A
Battery module voltage range					300 ~ 600				V
Protection									
Safety protection feature	Arc fault circuit interrupter ⁵ , DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Type II DC/AC surge protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection.								
Inverter topology	Non-isolation								
Protective class	I								
Overvoltage category	DC II, AC III								
Active anti-islanding protection	Frequency shift								
General Data									
Dimensions (W / H / D)	850/640/260		850/910/260		850/1180/260	850/1450/260	850/1720/260	850/1990/260	mm
Weight	112	153	168	183	254	325	396	467	kg
Storage temperature range	-25 ~ 60								
Operating temperature range	-20 ~ 55								
Relative humidity range	0% ~ 95%								
Max. operating altitude	4000								
Cooling	Natural convection								
System ingress protection rating	IP66								
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)								
Warranty Period	Sigen Battery - 10 years, Sigen Energy Controller - 10 years								

1. The backup function is achieved by the external device: Sigen Energy Gateway.

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.

3. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.

4. This refers to the usable energy capacity of entire system.

5. This is an optional feature only supported in certain models, please contact Sigenergy for more information.

* Country of manufacture: China

Sigen Energy Storage System

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DC Input (from PV)									
Max. PV power				20000					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				4					
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				9999					W
Max. output apparent power				9999					VA
Nominal output current				43.4					A
Max. output current				43.4					A
Nominal output voltage				220 / 230					V
Nominal grid frequency				50 / 60					Hz
Power factor				0.8 leading ~ 0.8 lagging					
Total current harmonic distortion				THDi < 2%					
Efficiency									
Max. efficiency				97.6%					
European efficiency				97.0%					
AC Output (backup)¹									
Nominal output power				9999					W
Max. output apparent power				9999					W
Nominal output current				43.4					A
Max. output current				43.4					A
Nominal output voltage				220 / 230					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 ²				0					ms
Battery Connection									
Battery module models				SigenStor BAT 5.0 / 8.0					
Number of battery modules	1	2	2	2	3	4	5	6	pcs
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Battery module voltage range				300 ~ 600					V
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AC Output (on-grid)										
Nominal output power									12000	W
Max. output apparent power									12000	VA
Nominal output current									54.6	A
Max. output current									54.6	A
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