Sigen Energy Storage System

SigenStor	5S-5	5S-8	5S-10	5S-13	5S-16	Units
DC Input (from PV)						
Max. PV power			10000			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			4999			W
Max. output apparent power			4999			VA
Nominal output current			21.7			A
Max. output current			21.7			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			97.4%			
AC Output (backup) [1]						
Nominal output power			5000			W
Max. output apparent power			5500			W
Nominal output current			22.7			A
Max. output current			25.0			A
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 [2]			0			ms
Battery Connection						
Battery module models			SigenStor BAT 5.0 / 8.0			
Number of battery modules	1	1	2	2	2	pcs
SigenStor BAT 5.0	1	0	2	1	0	pcs
SigenStor BAT 8.0	0	1	0	1	2	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	kWh
Usable energy capacity [3]	5.2	7.8	10.4	13.0	15.6	kWh
Depth of discharge [4]			97%			
Max charging or discharging current	7.5	12	15	19.5	24	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		mm
Weight	79	94	135	150	165	kg
Storage temperature range	-25 ~ 60					°C
Operating temperature range	-20 ~ 55					°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)					

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

SigenStor	6S-8	6S-10	6S-13	6S-16	6S-24	Units
DC Input (from PV)						
Max. PV power			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			6000			W
Max. output apparent power			6600			VA
Nominal output current			27.3			A
Max. output current			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			97.4%			
AC Output (backup) [1]						
Nominal output power			6000			W
Max. output apparent power			6600			W
Nominal output current			27.3			A
Max. output current			30.0			A
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 [2]			0			ms
Battery Connection						
Battery module models			SigenStor BAT 5.0 / 8.0			
Number of battery modules	1	2	2	2	3	pcs
SigenStor BAT 5.0	0	2	1	0	0	pcs
SigenStor BAT 8.0	1	0	1	2	3	pcs
Total energy capacity	8.06	10.76	13.44	16.12	24.18	kWh
Usable energy capacity [3]	7.8	10.4	13.0	15.6	23.4	kWh
Depth of discharge [4]			97%			
Max charging or discharging current	12	15	19.5	24	36	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	mm
Weight	94	135	150	165	236	kg
Storage temperature range	-25 ~ 60					°C
Operating temperature range	-20 ~ 55					°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)					

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