

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								

- The backup function is achieved by the external device: Sigen Energy Gateway.
 - 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.
 - Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.
 - This refers to the usable energy capacity of entire system.
 - 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	10S-8	10S-10	10S-13	10S-16	10S-24	10S-32	10S-40	10S-48	Units
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
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
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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					12000				W
Max. output apparent power					12000				VA
Nominal output current					54.6				A
Max. output current					54.6				A
Nominal output voltage					220 / 230				V
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