

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									°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)									
Warranty Period	Sigen Battery ~ 10 years, Sigen Eneray 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
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	12S-8	12S-10	12S-13	12S-16	12S-24	12S-32	12S-40	12S-48	Units	
DC Input (from PV)										
Max. PV power					24000				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					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	
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					12000				W	
Max. output apparent power					12000				W	
Nominal output current					54.6				A	
Max. output current					54.6				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-8S-	EV12-8	EV12-10	EV12-16	EV12-24	EV12-32	EV12-40	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
EV Charger Connection							
Sigen EV DC Charging Module				SigenStor EVDC 12 7.5S2			
Number of charging modules				1			pcs
Operation DC voltage range				150 ~1000			V
Max. DC operation current				40			A
Max. DC charging/discharging power				12.5			kW
The length of EV Connector				7.5			m
Battery Connection							
Battery module models				SigenStor BAT 5.0 / 8.0			
Number of battery modules	1	2	2	3	4	5	pcs
SigenStor BAT 5.0	0	2	0	0	0	0	pcs
SigenStor BAT 8.0	1	0	2	3	4	5	pcs
Total energy capacity	8.06	10.76	16.12	24.18	32.24	40.3	kWh
Usable energy capacity ³	7.8	10.4	15.6	23.4	31.2	39.0	kWh
Depth of discharge ⁴				97%			
Max charging or discharging current	12.0	15.0	24.0	36.0	48.0	60.0	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	mm
Weight	112	153	183	254	325	396	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)						
Warranty Period	Sigen Battery ~ 10 years, Sigen Energy Controller ~ 10 years, Sigen EV DC Charging Module ~ 3 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 Sigenenergy for more information.
- * Country of manufacture: China

Sigen Energy Storage System

SigenStor-8S-	EV25-8	EV25-10	EV25-16	EV25-24	EV25-32	EV25-40	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
EV Charger Connection							
Sigen EV DC Charging Module				SigenStor EVDC 25 7.5S2			
Number of charging modules				1			pcs
Operation DC voltage range				150 ~1000			V
Max. DC operation current				80			A
Max. DC charging/discharging power				25			kW
The length of EV Connector				7.5			m
Battery Connection							
Battery module models				SigenStor BAT 5.0 / 8.0			
Number of battery modules	1	2	2	3	4	5	pcs
SigenStor BAT 5.0	0	2	0	0	0	0	pcs
SigenStor BAT 8.0	1	0	2	3	4	5	pcs
Total energy capacity	8.06	10.76	16.12	24.18	32.24	40.3	kWh
Usable energy capacity ³	7.8	10.4	15.6	23.4	31.2	39.0	kWh
Depth of discharge ⁴				97%			
Max charging or discharging current	12.0	15.0	24.0	36.0	48.0	60.0	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	mm
Weight	112	153	183	254	325	396	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)						
Warranty Period	Sigen Battery ~ 10 years, Sigen Energy Controller ~ 10 years, Sigen EV DC Charging Module ~ 3 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.
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- * Country of manufacture: China

Sigen Energy Storage System

SigenStor-10S-	EV12-8	EV12-10	EV12-16	EV12-24	EV12-32	EV12-40	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
EV Charger Connection							
Sigen EV DC Charging Module			SigenStor EVDC 12 7.5S2				
Number of charging modules			1				pcs
Operation DC voltage range			150 ~1000				V
Max. DC operation current			40				A
Max. DC charging/discharging power			12.5				kW
The length of EV Connector			7.5				m
Battery Connection							
Battery module models			SigenStor BAT 5.0 / 8.0				
Number of battery modules	1	2	2	3	4	5	pcs
SigenStor BAT 5.0	0	2	0	0	0	0	pcs
SigenStor BAT 8.0	1	0	2	3	4	5	pcs
Total energy capacity	8.06	10.76	16.12	24.18	32.24	40.3	kWh
Usable energy capacity ³	7.8	10.4	15.6	23.4	31.2	39.0	kWh
Depth of discharge ⁴			97%				
Max charging or discharging current	12.0	15.0	24.0	36.0	48.0	60.0	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	mm
Weight	112	153	183	254	325	396	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 Enerav Controller ~ 10 years, Sigen EV DC Charging Module ~ 3 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.
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- * Country of manufacture: China

Sigen Energy Storage System

SigenStor-10S-	EV25-8	EV25-10	EV25-16	EV25-24	EV25-32	EV25-40	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
EV Charger Connection							
Sigen EV DC Charging Module				SigenStor EVDC 25 7.5S2			
Number of charging modules				1			pcs
Operation DC voltage range				150 ~1000			V
Max. DC operation current				80			A
Max. DC charging/discharging power				25			kW
The length of EV Connector				7.5			m
Battery Connection							
Battery module models				SigenStor BAT 5.0 / 8.0			
Number of battery modules	1	2	2	3	4	5	pcs
SigenStor BAT 5.0	0	2	0	0	0	0	pcs
SigenStor BAT 8.0	1	0	2	3	4	5	pcs
Total energy capacity	8.06	10.76	16.12	24.18	32.24	40.3	kWh
Usable energy capacity ³	7.8	10.4	15.6	23.4	31.2	39.0	kWh
Depth of discharge ⁴				97%			
Max charging or discharging current	12.0	15.0	24.0	36.0	48.0	60.0	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	mm
Weight	112	153	183	254	325	396	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)						
Warranty Period	Sigen Battery ~ 10 years, Sigen Energy Controller ~ 10 years, Sigen EV DC Charging Module ~ 3 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 Sigenenergy for more information.
- * Country of manufacture: China

Sigen Energy Storage System

SigenStor-12S-	EV12-8	EV12-10	EV12-16	EV12-24	EV12-32	EV12S-40	Units
DC Input (from PV)							
Max. PV power				24000			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				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
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				12000			W
Max. output apparent power				12000			W
Nominal output current				54.6			A
Max. output current				54.6			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
EV Charger Connection							
Sigen EV DC Charging Module				SigenStor EVDC 12 7.5S2			
Number of charging modules				1			pcs
Operation DC voltage range				150 ~1000			V
Max. DC operation current				40			A
Max. DC charging/discharging power				12.5			kW
The length of EV Connector				7.5			m
Battery Connection							
Battery module models				SigenStor BAT 5.0 / 8.0			
Number of battery modules	1	2	2	3	4	5	pcs
SigenStor BAT 5.0	0	2	0	0	0	0	pcs
SigenStor BAT 8.0	1	0	2	3	4	5	pcs
Total energy capacity	8.06	10.76	16.12	24.18	32.24	40.3	kWh
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Depth of discharge ⁴				97%			
Max charging or discharging current	12.0	15.0	24.0	36.0	48.0	60.0	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	mm
Weight	112	153	183	254	325	396	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)						
Warranty Period	Sigen Battery ~ 10 years, Sigen Energy Controller ~ 10 years, Sigen EV DC Charging Module ~ 3 years						

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Sigen Energy Storage System

SigenStor-12S-	EV25-8	EV25-10	EV25-16	EV25-24	EV25-32	EV25-40	Units
DC Input (from PV)							
Max. PV power				24000			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				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
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				12000			W
Max. output apparent power				12000			W
Nominal output current				54.6			A
Max. output current				54.6			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
EV Charger Connection							
Sigen EV DC Charging Module				SigenStor EVDC 25 7.5S2			
Number of charging modules				1			pcs
Operation DC voltage range				150 ~1000			V
Max. DC operation current				80			A
Max. DC charging/discharging power				25			kW
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Inverter topology				Non-isolation			
Protective class				I			
Overvoltage category				DC II, AC III			
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Warranty Period	Sigen Battery ~ 10 years, Sigen Energy Controller ~ 10 years, Sigen EV DC Charging Module ~ 3 years						

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

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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 Sigenenergy for more information.

* Country of manufacture: China