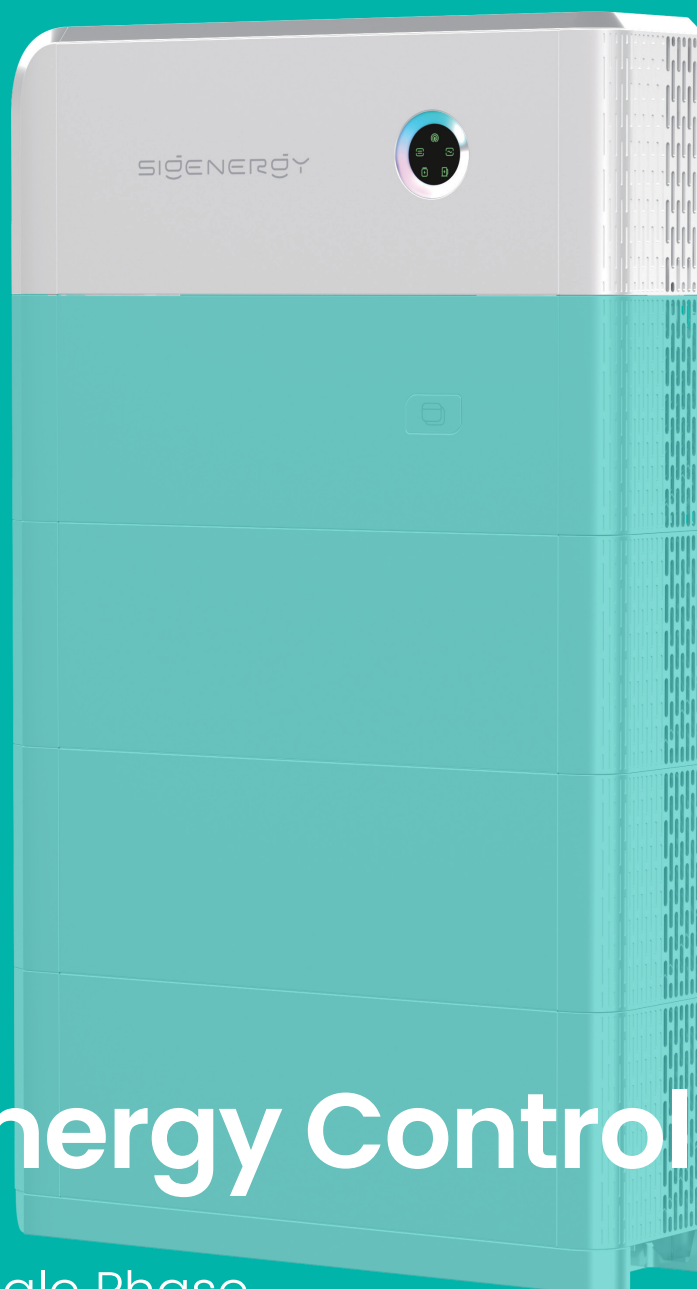




Sigen Energy Controller

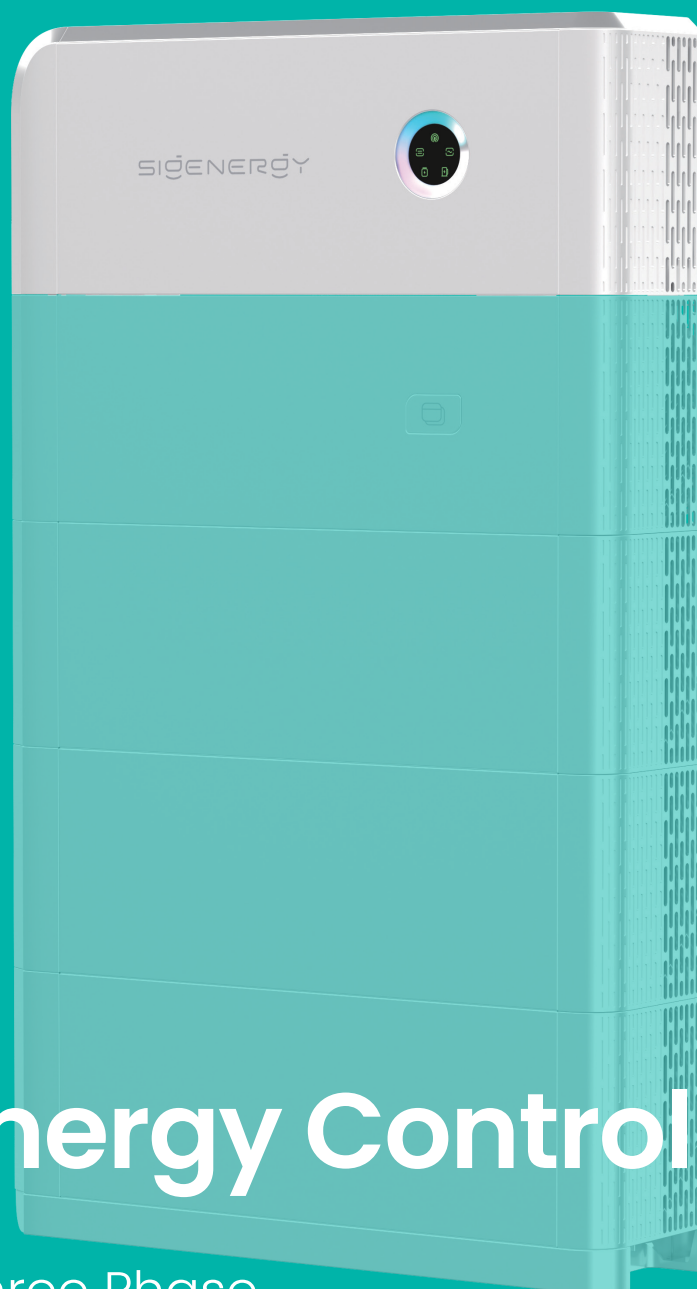
5.0 – 12.0kW Single Phase

- EMS inside for precise control
- Up to 4 MPP. trackers
- Multi-source black start
- On & off-grid compatibility
- DC/AC ratio up to 2.0
- IP66 system protection rating

Sigen Energy Controller 5.0–12.0 kW Single Phase Australia

SigenStor EC	5.0 SP	6.0 SP	8.0 SP	10.0 SP	12.0 SP	Units
DC Input (from PV)						
Max. PV power	10000	12000	16000	20000	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	2	2	3	4	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	4999	6000	8000	9999	12000	W
Max. output apparent power	4999	6600	8800	9999	12000	VA
Nominal output current	21.7	27.3	36.4	43.4	54.6	A
Max. output current	21.7	30.0	40.0	43.4	54.6	A
Nominal output voltage	220 / 230 / 240			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	98.0%	98.0%	97.6%	97.6%	97.6%	
European efficiency	97.4%	97.4%	97.0%	97.0%	97.0%	
AC Output (backup)						
Nominal output power	5000	6000	8000	10000	12000	W
Max. output apparent power	5500	6600	8800	11000	13200	W
Peak output power (10 seconds)	7500	9000	12000	15000	18000	W
Nominal output current	22.7	27.3	36.4	45.5	54.6	A
Max. output current	25.0	30.0	40.0	50.0	60.0	A
Peak output current (10 seconds)	34.1	40.9	54.6	68.2	81.8	A
Nominal output voltage	220 / 230 / 240			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 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 reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ² , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection					
General Data						
Dimensions (W / H / D)	700 / 300 / 245		700 / 300 / 260			mm
Weight	18		36			kg
Storage temperature range						°C
Operating temperature range						°C
Relative humidity range						
Max. operating altitude	4000					m
Cooling	Natural convection		Smart air cooling			
System ingress protection rating	IP66					
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)					
Standard Compliance						
Standard ³	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2, AS 4777					

- 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.
- This is an optional feature only supported in certain models, please contact Sigenergy for more information.
- For all standards refer to the certificates category on the Sigenergy website.



Sigen Energy Controller

5.0 – 30.0kW Three Phase

- EMS inside for precise control
- Up to 4 MPP. trackers
- Multi-source black start
- On & off-grid compatibility
- DC/AC ratio up to 1.6
- IP66 system protection rating

Sigen Energy Controller 5.0–30.0 kW Three Phase Australia

SigenStor EC	5.0 TP	10.0 TP	15.0 TP	20.0 TP	25.0 TP	30.0 TP	Units
DC Input (from PV)							
Max. PV power	8000	16000	24000	32000	40000	48000	W
Max. DC input voltage			1100				V
Nominal DC input voltage			600				V
Start-up voltage			180				V
MPPT voltage range			160 ~ 1000				V
Number of MPP. trackers	2	3	3	4	4	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	5000	9999	15000	20000	25000	29900	W
Max. output apparent power	5500	9999	15000	22000	27500	29900	VA
Nominal output current	7.6	14.4	21.7	30.4	38.0	43.3	A
Max. output current	8.4	14.4	21.7	33.4	41.8	43.3	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%	98.3%	98.3%	98.3%	98.3%	98.4%	
European efficiency	96.1%	97.5%	97.9%	97.9%	98.0%	98.0%	
AC Output (backup)							
Nominal output power	5000	10000	15000	20000	25000	30000	W
Max. output apparent power	5500	11000	16500	22000	27500	33000	W
Peak output power (10 seconds)	7500	15000	22500	30000	30000	36000	W
Nominal output current	7.6	15.2	22.8	30.4	38.0	45.6	A
Max. output current	8.4	16.7	25.1	33.4	41.8	50.1	A
Peak output current (10 seconds)	11.4	22.8	34.2	45.6	45.6	54.7	A
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 reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ² , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection						
General Data							
Dimensions (W / H / D)	700 / 300 / 260						mm
Weight	36	36	36	36	36	38	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 ³	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, AS 4777						

1. 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.
2. This is an optional feature only supported in certain models, please contact Sigenenergy for more information.
3. For all standards refer to the certificates category on the Sigenenergy website.

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
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.
 - 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-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 Energy Controller ~ 10 years, Sigen EV DC Charging Module ~ 3 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 Sigenenergy for more information.

* 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						

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 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
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 Sigenergy for more information.
- * Country of manufacture: China

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
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 Sigenergy for more information.
- * Country of manufacture: China

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					
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)					

- 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	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					
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)					

- 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	5T-8	5T-10	5T-13	5T-16	5T-24	Units
DC Input (from PV)						
Max. PV power			8000			W
Max. DC input voltage			1100			V
Nominal DC input voltage			600			V
Start-up voltage			180			V
MPPT voltage range			160 ~ 1000			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			5000			W
Max. output apparent power			5000			VA
Nominal output current			7.2			A
Max. output current			7.2			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%			
European efficiency			96.4%			
AC Output (backup) ¹						
Nominal output power			5000			W
Max. output apparent power			5500			W
Nominal output current			7.2			A
Max. output current			8.4			A
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 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	6.7	8.4	10.9	13.4	20.1	A
Battery module voltage range			600 ~ 900			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	112	153	168	183	254	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)					

- 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	10T-8	10T-10	10T-13	10T-16	10T-24	10T-32	10T-40	10T-48	Units
DC Input (from PV)									
Max. PV power					16000				W
Max. DC input voltage					1100				V
Nominal DC input voltage					600				V
Start-up voltage					180				V
MPPT voltage range					160 ~ 1000				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					9999				W
Max. output apparent power					9999				VA
Nominal output current					14.4				A
Max. output current					14.4				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					98.3%				
European efficiency					97.5%				
AC Output (backup) ¹									
Nominal output power					10000				W
Max. output apparent power					11000				W
Nominal output current					14.4				A
Max. output current					16.7				A
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 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	46.8	kWh
Depth of discharge ⁴	97%								
Max charging or discharging current	6.7	8.4	10.9	13.4	20.1	26.8	33.5	40	A
Battery module voltage range					600 ~ 900				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)								

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	15T-8	15T-10	15T-13	15T-16	15T-24	15T-32	15T-40	15T-48	Units
DC Input (from PV)									
Max. PV power					24000				W
Max. DC input voltage					1100				V
Nominal DC input voltage					600				V
Start-up voltage					180				V
MPPT voltage range					160 ~ 1000				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					15000				W
Max. output apparent power					15000				VA
Nominal output current					21.7				A
Max. output current					21.7				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					98.3%				
European efficiency					97.9%				
AC Output (backup) ¹									
Nominal output power					15000				W
Max. output apparent power					16500				W
Nominal output current					21.7				A
Max. output current					25.1				A
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 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	46.8	kWh
Depth of discharge ⁴	97%								
Max charging or discharging current	6.7	8.4	10.9	13.4	20.1	26.8	33.5	40	A
Battery module voltage range					600 ~ 900				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)								

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 Sigenenergy for more information.

* Country of manufacture: China

Sigen Energy Storage System

SigenStor	20T-10	20T-13	20T-16	20T-24	20T-32	20T-40	20T-48	Units
DC Input (from PV)								
Max. PV power				32000				W
Max. DC input voltage				1100				V
Nominal DC input voltage				600				V
Start-up voltage				180				V
MPPT voltage range				160 ~ 1000				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				20000				W
Max. output apparent power				22000				VA
Nominal output current				30.4				A
Max. output current				33.4				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				98.3%				
European efficiency				97.9%				
AC Output (backup) ¹								
Nominal output power				20000				W
Max. output apparent power				22000				W
Nominal output current				30.4				A
Max. output current				33.4				A
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 ²				0		ms		
Battery Connection								
Battery module models	SigenStor BAT 5.0 / 8.0							
Number of battery modules	2	2	2	3	4	5	6	pcs
SigenStor BAT 5.0	2	1	0	0	0	0	0	pcs
SigenStor BAT 8.0	0	1	2	3	4	5	6	pcs
Total energy capacity	10.76	13.44	16.12	24.18	32.24	40.3	48.36	kWh
Usable energy capacity ³	10.4	13.0	15.6	23.4	31.2	39	46.8	kWh
Depth of discharge ⁴	97%							
Max charging or discharging current	8.4	10.9	13.4	20.1	26.8	33.5	40	A
Battery module voltage range				600 ~ 900		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)	850/910/260			850/1180/260	850/1450/260	850/1720/260	850/1990/260	mm
Weight	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)							

- 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	25T-10	25T-13	25T-16	25T-24	25T-32	25T-40	25T-48	Units
DC Input (from PV)								
Max. PV power				40000				W
Max. DC input voltage				1100				V
Nominal DC input voltage				600				V
Start-up voltage				180				V
MPPT voltage range				160 ~ 1000				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				25000				W
Max. output apparent power				27500				VA
Nominal output current				38.0				A
Max. output current				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				98.3%				
European efficiency				98.0%				
AC Output (backup) ¹								
Nominal output power				25000				W
Max. output apparent power				27500				W
Nominal output current				38.0				A
Max. output current				41.8				A
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 ²				0			ms	
Battery Connection								
Battery module models	SigenStor BAT 5.0 / 8.0							
Number of battery modules	2	2	2	3	4	5	6	pcs
SigenStor BAT 5.0	2	1	0	0	0	0	0	pcs
SigenStor BAT 8.0	0	1	2	3	4	5	6	pcs
Total energy capacity	10.76	13.44	16.12	24.18	32.24	40.3	48.36	kWh
Usable energy capacity ³	10.4	13.0	15.6	23.4	31.2	39	46.8	kWh
Depth of discharge ⁴				97%				
Max charging or discharging current	8.4	10.9	13.4	20.1	26.8	33.5	40	A
Battery module voltage range				600 ~ 900			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)	850/910/260			850/1180/260	850/1450/260	850/1720/260	850/1990/260	mm
Weight	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)							

- 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	30T-16	30T-24	30T-32	30T-40	30T-48	Units
DC Input (from PV)						
Max. PV power	48000					W
Max. DC input voltage	1100					V
Nominal DC input voltage	600					V
Start-up voltage	180					V
MPPT voltage range	160 ~ 1000					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	29999					W
Max. output apparent power	29999					VA
Nominal output current	43.4					A
Max. output current	43.4					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	98.3%					
European efficiency	98.0%					
AC Output (backup) ¹						
Nominal output power	30000					W
Max. output apparent power	33000					W
Nominal output current	45.5					A
Max. output current	50.0					A
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 ²	0					ms
Battery Connection						
Battery module models	SigenStor BAT 5.0 / 8.0					
Number of battery modules	2	3	4	5	6	pcs
SigenStor BAT 5.0	0	0	0	0	0	pcs
SigenStor BAT 8.0	2	3	4	5	6	pcs
Total energy capacity	16.12	24.18	32.24	40.3	48.36	kWh
Usable energy capacity ³	15.6	23.4	31.2	39	46.8	kWh
Depth of discharge ⁴	97%					
Max charging or discharging current	13.4	20.1	26.8	33.5	40	A
Battery module voltage range	600 ~ 900					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)	850/910/260	850/1180/260	850/1450/260	850/1720/260	850/1990/260	mm
Weight	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)					

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