

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)					

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

2. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Energy Controller and Sigen Battery. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Energy Controller is higher than the total power of the home loads.

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

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

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

* Country of manufacture: China

Sigen Energy Storage System

SigenStor	6S-8	6S-10	6S-13	6S-16	6S-24	Units
DC Input (from PV)						
Max. PV power			12000			W
Max. DC input voltage			600			V
Nominal DC input voltage			350			V
Start-up voltage			100			V
MPPT voltage range			50 - 550			V
Number of MPP trackers			2			
Number of PV strings per MPPT			1			
Max. input current per MPPT			16			A
Max. short-circuit current per MPPT			20			A
AC Output (on-grid)						
Nominal output power			6000			W
Max. output apparent power			6600			VA
Nominal output current			27.3			A
Max. output current			30.0			A
Nominal output voltage			220 / 230 / 240			V
Nominal grid frequency			50 / 60			Hz
Power factor			0.8 leading ~ 0.8 lagging			
Total current harmonic distortion			THDi < 2%			
Efficiency						
Max. efficiency			98.0%			
European efficiency			97.4%			
AC Output (backup)¹						
Nominal output power			6000			W
Max. output apparent power			6600			W
Nominal output current			27.3			A
Max. output current			30.0			A
Nominal output voltage			220 / 230 / 240			V
Nominal output frequency			50 / 60			Hz
Power factor			0.8 leading ~ 0.8 lagging			
Total voltage harmonic distortion			THDv < 2%			
Disruption time of backup switch ²			0			ms
Battery Connection						
Battery module models			SigenStor BAT 5.0 / 8.0			
Number of battery modules	1	2	2	2	3	pcs
SigenStor BAT 5.0	0	2	1	0	0	pcs
SigenStor BAT 8.0	1	0	1	2	3	pcs
Total energy capacity	8.06	10.76	13.44	16.12	24.18	kWh
Usable energy capacity ³	7.8	10.4	13.0	15.6	23.4	kWh
Depth of discharge ⁴			97%			
Max charging or discharging current	12	15	19.5	24	36	A
Battery module voltage range			300 ~ 600			V
Protection						
Safety protection feature	Arc fault circuit interrupter ⁵ , DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Type II DC/AC surge protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection.					
Inverter topology	Non-isolation					
Protective class	I					
Overvoltage category	DC II, AC III					
Active anti-islanding protection	Frequency shift					
General Data						
Dimensions (W / H / D)	850/640/260		850/910/260		850/1180/260	
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)					

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	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	
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)					

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	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									
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.

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* 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												
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.

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* 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							
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							
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.

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* 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							
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	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
SigenStor BAT 5.0		0	0	0	0	0
SigenStor BAT 8.0		2	3	4	5	6
Total energy capacity		16.12	24.18	32.24	40.3	48.36
Usable energy capacity ³		15.6	23.4	31.2	39	46.8
Depth of discharge ⁴				97%		
Max charging or discharging current		13.4	20.1	26.8	33.5	40
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
Weight		183	254	325	396	467
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