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					°C
Operating temperature range	-20 ~ 55					°C
Relative humidity range	0% ~ 95%					
Max. operating altitude	4000					m
Cooling	Natural convection					
System ingress protection rating	IP66					
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)					

1. The backup function is achieved by the external device: Sigen Energy Gateway.
2. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Energy Controller and Sigen Battery. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Energy Controller is higher than the total power of the home loads.
3. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.
4. This refers to the usable energy capacity of entire system.
5. This is an optional feature only supported in certain models, please contact Sigenergy for more information.

* Country of manufacture: China

Sigen Energy Storage System

SigenStor	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								°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)								

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3. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.
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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								V
Protection									
Safety protection feature	Arc fault circuit interrupter [5], DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Type II DC/AC surge protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection.								
Inverter topology	Non-isolation								
Protective class	I								
Overvoltage category	DC II, AC III								
Active anti-islanding protection	Frequency shift								
General Data									
Dimensions (W / H / D)	850/640/260		850/910/260		850/1180/260	850/1450/260	850/1720/260	850/1990/260	mm
Weight	112	153	168	183	254	325	396	467	kg
Storage temperature range	-25 ~ 60								°C
Operating temperature range	-20 ~ 55								°C
Relative humidity range	0% ~ 95%								
Max. operating altitude	4000								m
Cooling	Natural convection								
System ingress protection rating	IP66								
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)								

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3. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.
4. This refers to the usable energy capacity of entire system.
5. This is an optional feature only supported in certain models, please contact Sigenergy 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)							

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

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