Sigen Energy Storage System-Electrical Rating

SigenStor-·	5T	10T	15T	20T	25T	30T	(-EVx*)-y**
Input (PV)							Unit
Recommended max. PV power	8000	16000	19200	32000	40000	48000	W
Max. input voltage	1100						d.c. V
MPPT voltage range	160~1000						d.c. V
Start-up voltage	180						d.c. V
Nominal DC input voltage	600						d.c. V
Max. input current per MPPT	16						d.c. A
Max. short-circuit current	20						d.c. A
Number of MPP trackers	2	3		4			
Max. input number per MPP tracker	1						
Input (DC Battery)							
Operating voltage range	600-900						d.c. V
Efffciency							
Max. efffciency	98.10%	98.30%	98.30%	98.30%	98.30%	98.40%	
European efffciency	96.10%	97.50%	97.90%	97.90%	98.00%	98.00%	
Output (On Grid)							
Rated output power	5000	9999	15000	20000	25000	29999	W
Rated apperant power	5000	9999	15000	20000	25000	29999	VA
Max. apparent power	5000	9999	15000	22000	27500	29999	VA
Rated. output current	7.2	14.4	21.7	30.4	38	43.4	
Max. output current	7.2	14.4	21.7	33.4	41.8	43.4	a.c. A
Rated output voltage	380 / 400, 3W+N+PE						a.c. V
Rated AC grid frequency	50/60H						Hz
Adjustable power factor	0.8 leading~ 0.8 lagging						
Total current harmonic distortion	THDI＜2%						
AC Output (backup)							
Peak output power (10 seconds)	7500	15000	22500	30000	30000	36000	W
Nominal output voltage	380 / 400, 3W+N+PE						VA
Nominal output frequency	50 / 60						Hz
Power factor	0.8 leading ~ 0.8 lagging						
Total voltage harmonic distortion	THDv < 2%						
Disruption time of backup switch2	0						ms
Protection							
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter 3, AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding 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)	Refer to battery combination datasheet part						mm
Weight	Refer to battery combination datasheet part						kg
Operating temperature range	-25 ~ + 55 °C						°C
Relative humidity range	0% ~ 100%						
Max. operating altitude	4000						mm
Cooling	Smart air cooling						
Degree of protection	IP66						°C
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)						
* "-EVx" only presents for models with EV DC module	x can be 12, 25; 12 present the system models that installed with SigenStor EVDC 12 7.5S2; 25 present the system models that installed with SigenStor EVDC 25 7.5S2;						
** y for battery system configuration	y can be 5, 8, 10, 13, 16, 18, 21, 24, 26, 29, 32, 34, 37, 40, 43, 45, 48, 6.02, 9.04, 12.04, 15.06, 18.08, 21.08, 24.10, 27.12, 30.12, 33.14, 36.16, 39.16, 42.18, 45.2, 48.2, 51.22, 54.24, 17.10, 26.14, 35.18, 44.22, 53.26, 19.80, 28.84, 22.48, 31.52, 40.56, 49.60, 25.16, 34.20, 43.24, 52.28, 33.22, 42.26, 51.30, 41.28, 50.32, 49.34; each number presents the energy storage capacity for different models; For battery combinations and ratings refer to the battery combination datasheet.						

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.This is an optional feature only supported in certain models, please contact Sigenergy for more information.
4.Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beg.
5.This refers to the usable energy capacity of entire system.
•Country of manufacture: China.

Sigen Energy Storage System-Battery Combination

SigenStor-X-··	6.02	9.04	12.04	15.06	18.08	21.08	24.10	27.12	30.12	33.14	Unit
Number of 5.0 battery modules	0	0	0	0	0	0	0	0	0	0	pcs
Number of 8.0 battery modules	0	0	0	0	0	0	0	0	0	0	pcs
Number of 6.0 battery modules	1	0	2	1	0	2	1	0	2	1	pcs
Number of 10.0 battery modules	0	1	0	1	2	1	2	3	2	3	pcs
Total Energy	6.02	9.04	12.04	15.06	18.08	21.08	24.10	27.12	30.12	33.14	kWh
Usable Energy Capacity	6	9	12	15	18	21	24.1	27.1	30.1	33.1	kWh
Depth of discharge	100%										
Voltage Range	600~900										d.c. V
Rated Current (Max. Continuous Current) for **SigenStor-5T-y****	5.0	7.7	10.0	12.7	15.3	17.7	20.3	21.7	21.7	21.7	A
Total module numbers	2	2	3	3	3	4	4	4	5	5	pcs
Dimensions (W / H / D)	850/640/260	850/640/260	850/910/260	850/910/260	850/910/260	850/1180/260	850/1180/260	850/1180/260	850/1450/260	850/1450/260	mm
Weight	103	119	165	181	197	243	259	275	321	337	kg
Rated Current (Max. Continuous Current) for **SigenStor-5T- EV12-y****	5.0	7.7	10.0	12.7	15.3	17.7	20.3	23.0	25.3	28.0	A
Total module numbers	3	3	4	4	4	5	5	5	6	6	pcs
Dimensions (W / H / D)	850/910/260	850/910/260	850/1180/260	850/1180/260	850/1180/260	850/1450/260	850/1450/260	850/1450/260	850/1720/260	850/1720/260	mm
Weight	142	158	204	220	236	282	298	314	360	376	kg

Sigen Energy Storage System-Battery Combination

SigenStor-X-·	6.02	9.04	12.04	15.06	18.08	21.08	24.10	27.12	30.12	33.14	Unit
Rated Current (Max. Continuous Current) for **SigenStor-5T- EV25-y****	5.0	7.7	10.0	12.7	15.3	17.7	20.3	23.0	25.3	28.0	A
Total module numbers	3	3	4	4	4	5	5	5	6	6	pcs
Dimensions (W / H / D)	850/910/260	850/910/260	850/1180/260	850/1180/260	850/1180/260	850/1450/260	850/1450/260	850/1450/260	850/1720/260	850/1720/260	mm
Weight	142	158	204	220	236	282	298	314	360	376	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-y****	5.0	7.7	10.0	12.7	15.3	17.7	20.3	23.0	25.3	28.0	A
Total module numbers	2	2	3	3	3	4	4	4	5	5	pcs
Dimensions (W / H / D)	850/640/260	850/640/260	850/910/260	850/910/260	850/910/260	850/1180/260	850/1180/260	850/1180/260	850/1450/260	850/1450/260	mm
Weight	103	119	165	181	197	243	259	275	321	337	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-EV12-y****	5.0	7.7	10.0	12.7	15.3	17.7	20.3	23.0	25.3	28.0	A
Total module numbers	3	3	4	4	4	5	5	5	6	6	pcs
Dimensions (W / H / D)	850/910/260	850/910/260	850/1180/260	850/1180/260	850/1180/260	850/1450/260	850/1450/260	850/1450/260	850/1720/260	850/1720/260	mm
Weight	142	158	204	220	236	282	298	314	360	376	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-EV25-y****	5.0	7.7	10.0	12.7	15.3	17.7	20.3	23.0	25.3	28.0	A
Total module numbers	3	3	4	4	4	5	5	5	6	6	pcs
Dimensions (W / H / D)	850/910/260	850/910/260	850/1180/260	850/1180/260	850/1180/260	850/1450/260	850/1450/260	850/1450/260	850/1720/260	850/1720/260	mm
Weight	142	158	204	220	236	282	298	314	360	376	kg

Sigen Energy Storage System-Battery Combination

SigenStor-X-··	36.16	39.16	42.18	45.20	48.20	51.22	54.24	17.10	26.14	35.18	Unit
Number of 5.0 battery modules	0	0	0	0	0	0	0	0	0	0	pcs
Number of 8.0 battery modules	0	0	0	0	0	0	0	1	1	1	pcs
Number of 6.0 battery modules	0	2	1	0	2	1	0	0	0	0	pcs
Number of 10.0 battery modules	4	3	4	5	4	5	6	1	2	3	pcs
Total Energy	36.16	39.16	42.18	45.20	48.20	51.22	54.24	17.10	26.14	35.18	kWh
Usable Energy Capacity	36.1	39.1	42.1	45.2	48.2	51.2	54.2	17.1	26.1	35.1	kWh
Depth of discharge	100%										
Voltage Range	600~900										d.c. V
Rated Current (Max. Continuous Current) for **SigenStor-5T-y****	21.7	21.7	21.7	21.7	21.7	21.7	21.7	14.3	21.7	21.7	A
Total module numbers	5	6	6	6	7	7	7	3	4	5	pcs
Dimensions (W / H / D)	850/1450/260	850/1720/260	850/1720/260	850/1720/260	850/1990/260	850/1990/260	850/1990/260	850/910/260	850/1180/260	850/1450/260	mm
Weight	353	399	415	431	477	493	509	190	268	346	kg
Rated Current (Max. Continuous Current) for **SigenStor-5T- EV12-y****	30.7	33.0	35.7	38.3	-	-	-	14.3	22.0	29.7	A
Total module numbers	6	7	7	7	-	-	-	4	5	6	pcs
Dimensions (W / H / D)	850/1720/260	850/1990/260	850/1990/260	850/1990/260	-	-	-	850/1180/260	850/1450/260	850/1720/260	mm
Weight	392	438	454	470	-	-	-	229	307	385	kg

Sigen Energy Storage System-Battery Combination

SigenStor-X-·	36.16	39.16	42.18	45.20	48.20	51.22	54.24	17.10	26.14	35.18	Unit
Rated Current (Max. Continuous Current) for **SigenStor-5T- EV25-y****	30.7	33.0	35.7	38.3	-	-	-	14.3	22.0	29.7	A
Total module numbers	6	7	7	7	-	-	-	4	5	6	pcs
Dimensions (W / H / D)	850/1720/260	850/1990/260	850/1990/260	850/1990/260	-	-	-	850/1180/260	850/1450/260	850/1720/260	mm
Weight	392	438	454	470	-	-	-	229	307	385	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-y****	30.7	33.0	35.7	38.3	40.7	43.3	43.3	14.3	22.0	29.7	A
Total module numbers	5	6	6	6	7	7	7	3	4	5	pcs
Dimensions (W / H / D)	850/1450/260	850/1720/260	850/1720/260	850/1720/260	850/1990/260	850/1990/260	850/1990/260	850/910/260	850/1180/260	850/1450/260	mm
Weight	392	438	454	470	516	532	548	229	307	385	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-EV12-y****	30.7	33.0	35.7	38.3	-	-	-	14.3	22.0	29.7	A
Total module numbers	6	7	7	7	-	-	-	4	5	6	pcs
Dimensions (W / H / D)	850/1720/260	850/1990/260	850/1990/260	850/1990/260	-	-	-	850/1180/260	850/1450/260	850/1720/260	mm
Weight	392	438	454	470	-	-	-	229	307	385	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-EV25-y****	30.7	33.0	35.7	38.3	-	-	-	14.3	22.0	29.7	A
Total module numbers	6	7	7	7	-	-	-	4	5	6	pcs
Dimensions (W / H / D)	850/1720/260	850/1990/260	850/1990/260	850/1990/260	-	-	-	850/1180/260	850/1450/260	850/1720/260	mm
Weight	392	438	454	470	-	-	-	229	307	385	kg

Sigen Energy Storage System-Battery Combination

SigenStor-X-··	44.22	53.26	19.80	28.84	22.48	31.52	40.56	49.60	25.16	34.20	Unit
Number of 5.0 battery modules	0	0	2	2	1	1	1	1	0	0	pcs
Number of 8.0 battery modules	1	1	0	0	1	1	1	1	2	2	pcs
Number of 6.0 battery modules	0	0	0	0	0	0	0	0	0	0	pcs
Number of 10.0 battery modules	4	5	1	2	1	2	3	4	1	2	pcs
Total Energy	44.22	53.26	19.80	28.84	22.48	31.52	40.56	49.60	25.16	34.20	kWh
Usable Energy Capacity	44.2	53.2	19.8	28.8	22.4	31.5	40.5	49.6	25.1	34.2	kWh
Depth of discharge	100%										
Voltage Range	600~900										d.c. V
Rated Current (Max. Continuous Current) for **SigenStor-5T-y****	21.7	21.7	16.0	21.7	18.5	21.7	21.7	21.7	21.0	21.7	A
Total module numbers	6	7	4	5	4	5	6	7	4	5	pcs
Dimensions (W / H / D)	850/1720/260	850/1990/260	850/1180/260	850/1450/260	850/1180/260	850/1450/260	850/1720/260	850/1990/260	850/1180/260	850/1450/260	mm
Weight	424	502	231	309	246	324	402	480	261	339	kg
Rated Current (Max. Continuous Current) for **SigenStor-5T- EV12-y****	37.3	-	16.0	23.7	18.5	26.2	33.8	-	21.0	28.7	A
Total module numbers	7	-	5	6	5	6	7	-	5	6	pcs
Dimensions (W / H / D)	850/1990/260	-	850/1450/260	850/1720/260	850/1450/260	850/1720/260	850/1990/260	-	850/1450/260	850/1720/260	mm
Weight	463	-	270	348	285	363	441	-	300	378	kg

Sigen Energy Storage System-Battery Combination

SigenStor-X-·	44.22	53.26	19.80	28.84	22.48	31.52	40.56	49.60	25.16	34.20	Unit
Rated Current (Max. Continuous Current) for **SigenStor-5T- EV25-y****	37.3	-	16.0	23.7	18.5	26.2	33.8	-	21.0	28.7	A
Total module numbers	7	-	5	6	5	6	7	-	5	6	pcs
Dimensions (W / H / D)	850/1990/260	-	850/1450/260	850/1720/260	850/1450/260	850/1720/260	850/1990/260	-	850/1450/260	850/1720/260	mm
Weight	463	-	270	348	285	363	441	-	300	378	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-y****	37.3	43.3	16.0	23.7	18.5	26.2	33.8	41.5	21.0	28.7	A
Total module numbers	6	7	4	5	4	5	6	7	4	5	pcs
Dimensions (W / H / D)	850/1720/260	850/1990/260	850/1180/260	850/1450/260	850/1180/260	850/1450/260	850/1720/260	850/1990/260	850/1180/260	850/1450/260	mm
Weight	463	541	270	348	285	363	441	519	300	378	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-EV12-y****	37.3	-	16.0	23.7	18.5	26.2	33.8	-	21.0	28.7	A
Total module numbers	7	-	5	6	5	6	7	-	5	6	pcs
Dimensions (W / H / D)	850/1990/260	-	850/1450/260	850/1720/260	850/1450/260	850/1720/260	850/1990/260	-	850/1450/260	850/1720/260	mm
Weight	463	-	270	348	285	363	441	-	300	378	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-EV25-y****	37.3	-	16.0	23.7	18.5	26.2	33.8	-	21.0	28.7	A
Total module numbers	7	-	5	6	5	6	7	-	5	6	pcs
Dimensions (W / H / D)	850/1990/260	-	850/1450/260	850/1720/260	850/1450/260	850/1720/260	850/1990/260	-	850/1450/260	850/1720/260	mm
Weight	463	-	270	348	285	363	441	-	300	378	kg

Sigen Energy Storage System-Battery Combination

SigenStor-X-·	43.24	52.28	33.22	42.26	51.30	41.28	50.32	49.34	Unit
Number of 5.0 battery modules	0	0	0	0	0	0	0	0	pcs
Number of 8.0 battery modules	2	2	3	3	3	4	4	5	pcs
Number of 6.0 battery modules	0	0	0	0	0	0	0	0	pcs
Number of 10.0 battery modules	3	4	1	2	3	1	2	1	pcs
Total Energy	43.24	52.28	33.22	42.26	51.30	41.28	50.32	49.34	kWh
Usable Energy Capacity	43.2	52.2	33.2	42.2	51.3	41.2	50.3	49.3	kWh
Depth of discharge	100%								
Voltage Range	600~900								d.c. V
Rated Current (Max. Continuous Current) for **SigenStor-5T-y****	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	A
Total module numbers	6	7	5	6	7	6	7	7	pcs
Dimensions (W / H / D)	850/1720/260	850/1990/260	850/1450/260	850/1720/260	850/1990/260	850/1720/260	850/1990/260	850/1990/260	mm
Weight	417	495	332	410	488	403	481	474	kg
Rated Current (Max. Continuous Current) for **SigenStor-5T- EV12-y****	36.3	-	27.7	35.3	-	34.3	-	-	A
Total module numbers	7	-	6	7	-	7	-	-	pcs
Dimensions (W / H / D)	850/1990/260	-	850/1720/260	850/1990/260	-	850/1990/260	-	-	mm
Weight	456	-	371	449	-	442	-	-	kg

Sigen Energy Storage System-Battery Combination

SigenStor-X-·	43.24	52.28	33.22	42.26	51.30	41.28	50.32	49.34	Unit
Rated Current (Max. Continuous Current) for **SigenStor-5T- EV25-y****	36.3	-	27.7	35.3	-	34.3	-	-	A
Total module numbers	7	-	6	7	-	7	-	-	pcs
Dimensions (W / H / D)	850/1990/260	-	850/1720/260	850/1990/260	-	850/1990/260	-	-	mm
Weight	456	-	371	449	-	442	-	-	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-y****	36.3	43.3	27.7	35.3	43.0	34.3	42.0	41.0	A
Total module numbers	6	7	5	6	7	6	7	7	pcs
Dimensions (W / H / D)	850/1720/260	850/1990/260	850/1450/260	850/1720/260	850/1990/260	850/1720/260	850/1990/260	850/1990/260	mm
Weight	456	534	371	449	527	442	520	513	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-EV12-y****	36.3	-	27.7	35.3	-	34.3	-	-	A
Total module numbers	7	-	6	7	-	7	-	-	pcs
Dimensions (W / H / D)	850/1990/260	-	850/1720/260	850/1990/260	-	850/1990/260	-	-	mm
Weight	456	-	371	449	-	442	-	-	kg
Rated Current (Max. Continuous Current) for **SigenStor-10/15/20/25/30T-EV25-y****	36.3	-	27.7	35.3	-	34.3	-	-	A
Total module numbers	7	-	6	7	-	7	-	-	pcs
Dimensions (W / H / D)	850/1990/260	-	850/1720/260	850/1990/260	-	850/1990/260	-	-	mm
Weight	456	-	371	449	-	442	-	-	kg