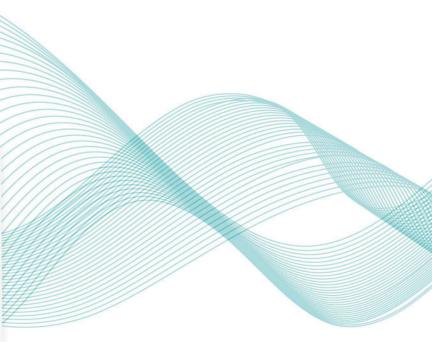


Sigenergy focuses on developing cutting-edge home and business energy solutions, with products ranging from energy storage systems to solar inverters and EV chargers. Our world-class R&D team of hundreds of top industry experts shares the vision of making the world greener via continuous innovation. With global sales and services, we aim to become our customers' most trusted partner on their journey to a more sustainable future.

www.sigenergy.com

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SIGENERGY Home Energy Solution

Let the world enjoy green energy

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Product

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Residential Solution

Product Portfolio

Trusted Partner

Service Partner



Intelligent Manufacturing

Solar-powered Manufacturing

Quality Assurance



ABOUT SIGENERGY

Sigenergy focuses on developing cutting-edge home and business energy solutions, with products ranging from energy storage systems to solar inverters and EV chargers. Our world-class R&D team of hundreds of top industry experts shares the vision of making the world greener via continuous innovation. With global sales and services, we aim to become our customers' most trusted partner on their journey to a more sustainable future.

VISION Enjoy Green Energy

MISSION

Be a distributed energy pioneer. Build intelligent energy solutions with superior safety, ultra simplicity, and outstanding performance.

Safe Intelligent Green Efficient New

SIGENERGY HOME ENERGY SOLUTION

Combining solar, storage and EV charging, Sigenergy offers an all-in-one Home Energy Solution that helps you lower utility bill and reliance on the grid. Simple to install, easy to use, smart & safe all around, our system is versatile and scalable to meet every need.

Let numbers talk Sigenergy is raising industry standards

15 mins stackable installation 5 layers

280 Ah long cycle-life battery cell 0 ms load-side disruption

5 mins

5 layers

V2X bi-directional charging 1-click

Simple

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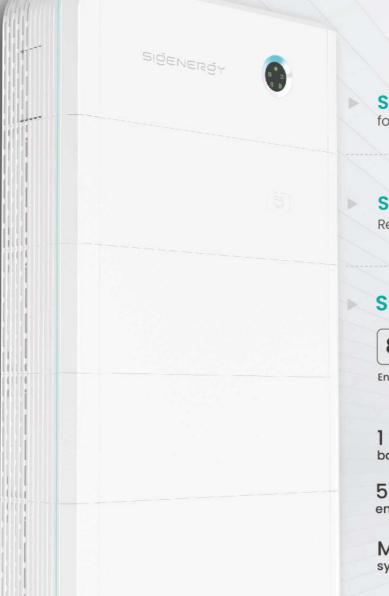
Versatile

Robust



Intelligent





Sigen Energy Controller for solar + energy storage system

Sigen EV DC Charging Module Ready for V2X

Sigen Battery



1 - 6batteries stackbale for per stack

5 kWh - 48 kWh energy capacity range for per stack

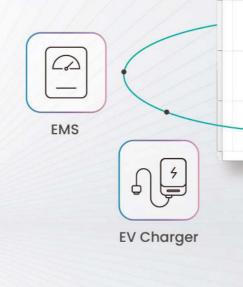
Multiple systems supported in parallel connection

Sigenergy is leading a new way of producing, storing, transferring, and consuming home energy. We provide a genuine all-in-one solar energy storage system, SigenStor. Its unique 5-in-One modular design integrates Solar Inverter, EV DC Charger, Battery PCS, Battery Pack, and EMS into one intelligent home energy system. Simple, robust and versatile, it will be a great addition to your home.



5-in-One, highly integrated design

SIDENERDY



PV Inv

۲		
0		
	Battery PCS	
	Battery Pack	
verter		

3.0 - 6.0 kW Single Phase 5.0 - 25.0 kW Three Phase

- EMS inside for precise control
- DC ground-fault protection
- Multi-source black start



• On & off-grid compatibility • DC/AC ratio up to 2 (single phase) • IP66 system protection rating

Sigen Energy Controller 3.0-6.0 kW Single Phase

SigenStor EC	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units				
DC Input (from PV)											
Max. PV power	6000	7360	8000	9200	10000	12000	W				
Max. DC input voltage	0000	,000		00	10000	12000	V				
Nominal DC input voltage	6			50			V				
Start-up voltage			1050	00			V				
MPPT voltage range				- 550			V				
Number of MPP, trackers				2			•				
Number of PV strings per MPPT		1									
Max. input current per MPPT				6			A				
Max. short-circuit current per MPPT				20			A				
AC Output (on-grid)											
Nominal output power	3000	3680	4000	4600	5000	6000	W				
Max. output apparent power	3300	3680	4400	5000	5500	6600	VA				
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	A				
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	A				
Nominal output voltage	10.0	10.0		30 / 240	20.0	00.0	V				
Nominal grid frequency				/ 60			Hz				
Power factor			Pole Accord	~ 0.8 lagging			ΠZ				
otal current harmonic distortion				~ 0.8 lugging i < 2%							
Efficiency			1112								
Max. efficiency			98	1.0%							
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%					
AC Output (backup)	07.070	07.170	011270	07.070	07.470	07.470					
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W				
Nominal output voltage	4300	5520		30 / 240	7500	3000	V				
Nominal output frequency				/ 60							
Power factor	÷			~ 0.8 lagging			Hz				
fotal voltage harmonic distortion			-	~ 0.8 lugging / < 2%							
Disruption time of backup switch ¹				0			-				
				0			ms				
Battery Connection				10 0 1 0000							
Battery module models			SigenStor I	BAT 5.0 / 8.0							
Number of modules per controller			1	~ 6			pcs				
Battery module voltage range			300	~ 600			V				
Protection											
Safety protection feature	Anti-is	landing prote	ction, AC over	circuit interrupt current/overvo urrent monitor	oltage/short-c	ircuit protecti	ion,				
General Data											
Dimensions (W / H / D)			700 / 3	00 / 245			mm				
Weight				8			kg				
Storage temperature range			-40	~ 70			°C				
Operating temperature range			-30	~ 60			°C				
Relative humidity range			0% ~	- 95%							
Max. operating altitude			40	000			m				
Cooling			Natural c	onvection							
System ingress protection rating			IP	66							
Communication	W	LAN / Fast Ethe	ernet / RS485 /	Sigen Comm	Mod (4G/3G/2	2G)					
Standard Compliance											
Standard ²	IEC/EN	62109-1, IEC/E	N 62109-2, IEC/	/EN 62477, IEC/	EN 61000-6-1, I	EC/EN 61000-	6-2				
				1	- 11						

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. For all standards refer to the certificates category in the Sigenergy website.

Sigen Energy Controller 5.0-25.0 kW Three Phase

SigenStor EC	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	Units
DC Input (from PV)										
• 12 80	8000	0000	10000	10000	10000	04000	07000	22000	40000	147
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W
Max. DC input voltage	1				1100					V
Nominal DC input voltage					600					V
Start-up voltage					180	2				V
MPPT voltage range		0			160 ~ 1000			4		V
Number of MPP. trackers		2			3			4		
Number of PV strings per MPPT					1					
Max. input current per MPPT	12				16				1	A
Max. short-circuit current per MPPT					20					A
AC Output (on-grid)										
Nominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	W
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	VA
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	А
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	А
Nominal output voltage					380 / 400					V
Nominal grid frequency					50/60					Hz
Power factor				0.8 lead	ding ~ 0.8	lagging				
lotal current harmonic distortion					THDi < 2%					
Efficiency										
Max. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	
AC Output (backup)										
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W
Nominal output voltage	1000	0000	12000		380 / 400		20000	00000	00000	V
Nominal output frequency	22				50 / 60	e				Hz
Power factor	12			0.8 lead	ling ~ 0.8	lagging				1 12
Total voltage harmonic distortion					THDv < 29	00 0				
Disruption time of backup switch ¹				6	0	0				ms
Battery Connection					0					THE
				Ciment		0/00				
Battery module models				Sigen	Stor BAT 5	.0 / 8.0				200
Number of modules per controller					1~6	(pcs
Battery module voltage range				1	600 ~ 900)				V
Protection										
Safety protection feature		nti-island	ling prote	ction, AC	overcurre	nt/overvo	ltage/sho	ort-circuit	rity protection protection	
General Data										
Dimensions (W / H / D)				70	0 / 300 / 2	260				mm
Weight					36					kg
Storage temperature range					-40 ~ 70					°C
Operating temperature range					-30 ~ 60					°C
Relative humidity range					0% ~ 95%					
Max. operating altitude					4000	0				m
Cooling				Sm	art air coo	lina				111
0				3110	IP66	ang -				
System ingress protection rating Communication		W/LAN	/ Fast Ethe	arnot / pc.	1.231-1.431-1.52	n Comm	Mod (AG	36/26)		
		VVLAIN	FUSLEINE	ernet / KS4	+oo / sige	Comm	100 (40)	30/20)		
Standard Compliance				1						
Standard ²		IEC/EN 62	2109-1, IEC	/EN 62109	-2, IEC/EN	61000-6-	1, IEC/EN 6	61000-6-2		

This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen 1. 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. For all standards refer to the certificates category in the Sigenergy website.

Sigen Battery 5.0 / 8.0 kWh

SigenStor BAT	5.0	8.0	Units
Performance Specification			
Battery type	LiFe	ePO4	
Total energy capacity	5.38	8.06	kWh
Usable energy capacity ¹	5.2	7.8	kWh
Battery modules voltage range (single phase system)	300	~ 600	V
Battery modules voltage range (three phase system)	600	~ 900	V
Max. charge / discharge power	2500	4000	W
Peak charge / discharge power (10 seconds)	3750	6000	W
General Data			
Weight	55	70	kg
Dimensions (W / H / D)	767 / 2	70 / 260	mm
Storage temperature range	-25	i ~ 60	°C
Operating temperature range	-20) ~ 55	°C
Relative humidity range	5% -	~ 95%	
Max. operating altitude	40	000	m
Cooling	Natural c	convection	
System ingress protection rating	IP	266	
Installation method	Floor standing	/ Wall-mounted	
Standard Compliance			
Standard	IEC/EN 60730-1, UN 38.3, IEC	/EN 62619, IEC/EN 63056, IEC/EN 62	040

tage & durable
ety protection
vSigen Ann

Number of battery modules ²	1	2	3	4	5	6	pcs
Total energy capacity	8.06	16.12	24.18	32.24	40.3	48.36	kWh
Max. charge / discharge power	4	8	12	16	20	24	kW
Total weight	112	183	254	325	396	467	kg
Total height (with base)	640	910	1180	1450	1720	1990	mm
Total width (with decorative covers)			8	50			mm
Total depth (with decorative covers)			2	60			mm

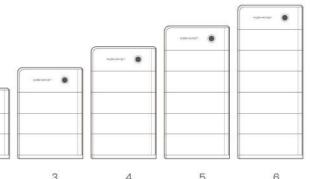
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2.

mounted installation.



- Large cell capacity, low vol
- Multi-layer full battery safet
- Visible battery status on mySigen App
- Quick connectors for fast installation
- Al enablement, optimized battery cycle life
- Parallel connections for flexible battery mix





Sigen EV DC Charging Module

- V2H power supply, ample backup energy
- V2G power transfer, ready for energy trading
- EV-supported home energy system black start Track & schedule charging on mySigen App
- Max. 25 kW stable bi-directional charging
- 150V ~ 1000V charging, wide EV compatibility
- Charge EV with 100% solar power
- IP66 system protection, maintenance free

Sigen EV DC Charging Module 12 / 25 kW

SigenStor EVDC ¹	12	25	Units
DC Output			
Max. charging power	12.5	25	kW
Max. discharging power (V2H, V2G)	12.5	25	kW
Output voltage range	150	V	
Max. output current	40	80	А
Charging interfaces	C	CS2	
Protection			
Short-circuit protection	Supp	oorted	
Over / Under voltage protection	Supp	ported	
Overload protection	Supp	ported	
Over temperature protection	Supp	ported	
Reverse polarity protection	Supp	ported	
Welded contactor check	Supp	ported	
General Data			
Dimensions (W / H / D)	700 / 2	270 / 260	mm
Weight		40	kg
Storage temperature range	-40	0 ~ 70	°C
Operating temperature range	-30) ~ 60	°C
Relative humidity range	5%	~ 95%	
Max. operating altitude	4	000	m
Cooling	Smart o	air cooling	
System ingress protection rating	IF	266	
Integrated charging cable length ²	5	/ 7.5	m
Function			
Authentication	RFID card / Auto. charg	ging (no authentication)	
Application		narging (V2H, V2G) gement, Reservation	
User interfaces	LED indicator, App	o, RFID / NFC reader	
Remote function	OTA, Remo	te diagnosis	

Sigen EV DC Charging Module needs to be used together with Sigen Energy Controller. Integrated charging cable length refers to the length of the cable that extends from the Sigen EV DC Charging Module, not the length of the exposed cable. 2



Preliminary

SIGENERGY





Sigen Hybrid Inverter

3.0 - 6.0 kW Single Phase 5.0 - 25.0 kW Three Phase

- Battery ready, future proof

- IP66 protection rating

• DC ground-fault protection • DC/AC ratio up to 2 (single phase) • Up to 4 MPP. trackers (three phase)

Sigen Hybrid Inverter 3.0-6.0 kW Single Phase

Sigen Hybrid	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Unit	
DC Input								
Max. PV power	6000	7360	8000	9200	10000	12000	W	
Max. DC input voltage	0000	7300		00	10000	12000	V	
Nominal DC input voltage	-			50			V	
Start-up voltage				00			V	
MPPT voltage range				550			V	
Number of MPP, trackers				2			•	
Number of PV strings per MPPT				1				
Max. input current per MPPT			1	6			А	
Max. short-circuit current per MPPT			05	0			A	
AC Output (on-grid)								
	3000	3680	4000	4600	5000	6000	W	
Nominal output power	3000	3680	4000	5000	5500	6600		
Max. output apparent power	13.6				22.7	27.3	VA	
Nominal output current	Transfer Street	16.0	18.2	20.9		52 65209200	A	
Max. output current Nominal output voltage	15.0	16.0	20.0	30 / 240	25.0	30.0	A	
•								
Nominal grid frequency		50 / 60 Hz						
Power factor Total current harmonic distortion		0.8 leading ~ 0.8 lagging THDi < 2%						
Efficiency			IADI	>∠/0				
				007				
Max. efficiency		020202020		.0%	2027/320			
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%		
Additional Features								
Compatible battery module			SigenStor E	BAT 5.0 / 8.0				
Number of modules per controller				- 6			pcs	
Battery module voltage range			300 -	~ 600			V	
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W	
			000 1 0	0 1 0 1 0			V	
Nominal output voltage			220 / 23	30/240			V	
Nominal output voltage Protection			220 / 23	30 / 240			V	
	Anti-is	landing protec	ion, Arc fault c ction, AC overc ng, Residual c	ircuit interrupt current/overvo	ltage/short-c	ircuit protectio	ection, on,	
Protection	Anti-is	landing protec	ion, Arc fault c	ircuit interrupt current/overvo	ltage/short-c	ircuit protectio	ection, on,	
Protection Safety protection feature	Anti-is	landing protec	ion, Arc fault c ction, AC over ng, Residual c	ircuit interrupt current/overvo	ltage/short-c	ircuit protectio	ection, on, n	
Protection Safety protection feature General Data	Anti-is	landing protec	ion, Arc fault c ction, AC over ng, Residual c 700 / 30	ircuit interrupt current/overvo urrent monitor	ltage/short-c	ircuit protectio	ection, on, n	
Protection Safety protection feature General Data Dimensions (W / H / D)	Anti-is	landing protec	ion, Arc fault c ction, AC over ng, Residual c 700 / 30	ircuit interrupt current/overvo urrent monitor 00 / 268	ltage/short-c	ircuit protectio	ection, on, n mm	
Protection Safety protection feature General Data Dimensions (W / H / D) Weight	Anti-is	landing protec	tion, Arc fault c ction, AC over ng, Residual c 700 / 30 1 -40	ircuit interrupt current/overvo urrent monitor 00 / 268 8	ltage/short-c	ircuit protectio	ection, on, n mm kg	
Protection Safety protection feature General Data Dimensions (W / H / D) Weight Storage temperature range	Anti-is	landing protec	ion, Arc fault c ction, AC over ing, Residual c 700 / 30 1 -40 -30	ircuit interrupt current/overvo urrent monitor 00 / 268 8 ~ 70	ltage/short-c	ircuit protectio	ection, on, n mm kg °C	
Protection Safety protection feature General Data Dimensions (W / H / D) Weight Storage temperature range Operating temperature range	Anti-is	landing protec	tion, Arc fault c ction, AC over ing, Residual c 700 / 30 1 -40 -30 0% ~	ircuit interrupt current/overvo urrent monitor 00 / 268 8 ~ 70 ~ 60	ltage/short-c	ircuit protectio	ection, on, n mm kg °C	
Protection Safety protection feature General Data Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range	Anti-is	landing protec	tion, Arc fault c ction, AC over ng, Residual c 700 / 30 1 -40 -30 0% ~ 40	ircuit interrupt current/overvo urrent monitor 00 / 268 8 ~ 70 ~ 60 95%	ltage/short-c	ircuit protectio	ection, on, n kg °C °C	
Protection Safety protection feature General Data Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range Max. operating altitude	Anti-is	landing protec	tion, Arc fault c ction, AC over ng, Residual c 700 / 30 1 -40 -30 0% ~ 40 Natural c	ircuit interrupt current/overvo urrent monitor 00 / 268 8 ~ 70 ~ 60 95% 00	ltage/short-c	ircuit protectio	ection, on, n kg °C °C	
Protection Safety protection feature General Data Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range Max. operating altitude Cooling	Anti-is	landing protec	ion, Arc fault c ction, AC over ing, Residual c 700 / 30 1 -40 -30 0% ~ 40 Natural c	ircuit interrupt current/overvo urrent monitor 00 / 268 8 ~ 70 ~ 60 95% 00 00 onvection	ltage/short-c	ircuit protectio	ection, on, n kg °C °C	

Sigen Hybrid Inverter 5.0-25.0 kW Three Phase

Sigen Hybrid	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	Unit
DC Input										
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W
Max. DC input voltage					1100					V
Nominal DC input voltage					600					V
Start-up voltage					180					V
MPPT voltage range					160 ~ 1000	1			1	V
Number of MPP. trackers		2			3			4		
Number of PV strings per MPPT					1					
Max. input current per MPPT					16				1	А
Max. short-circuit current per MPPT					20					A
AC Output (on-grid)										
Nominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	W
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	VA
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	A
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	A
Nominal output voltage					380 / 400				1246466	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%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	
Additional Features										
Compatible battery module				Sigens	Stor BAT 5.	0 / 8.0				
Number of modules per controller					1~6					pcs
Battery module voltage range					600 ~ 900					V
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W
Nominal output voltage					380 / 400					V
Protection										
Safety protection feature	DC ç	Anti-island	ding prote	ction, AC	ault circuit overcurrer ual curren	nt/overvo	ltage/shc	rt-circuit	rity protect protection rotection	tion, ,
Dimensions (W / H / D)				700	0 / 300 / 2	83				mm
Weight				700	36	.00				kg
Storage temperature range					-40 ~ 70					°C
Operating temperature range					-30 ~ 60					°C
Relative humidity range					0% ~ 95%					0
Max. operating altitude					4000					m
Cooling	2			Smr	art air coo	lina				
Ingress protection rating				orne	IP66					
Installation method				\M/c	all-mount	ed				
Communication		WIAN /	Fast Ethe		185 / Sige		Mod (4G	(36/26)		
General Data			. GOL LUIG			oomin		100120)		
		In a law -	0100	1	0.55	01000	1 moleur	1000		
Standard ¹		IEC/EN 6	2109-1, IEC	/EN 62109	-2, IEC/EN	61000-6-	I, IEC/EN 6	1000-6-2		



Sigen PV Inverter

3.0 - 6.0 kW Single Phase 5.0 - 25.0 kW Three Phase

• Easy installation with side cabling

SIGENEROY

- Visible energy tracking on mySigen App
- WLAN, Ethernet & 4G communication
- DC/AC ratio up to 2 (single phase)
- Up to 4 MPP. trackers (three phase)
- IP66 protection rating



Sigen PV Inverter 3.0-6.0 kW Single Phase

		U								
Sigen PV Max	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Unit			
DC Input										
Max. PV power	6000	7360	8000	9200	10000	12000	W			
Max. DC input voltage			60	00			V			
Nominal DC input voltage			35	50			V			
Start-up voltage			10	0			V			
MPPT voltage range			50 ~	550			V			
Number of MPP. trackers			2	2						
Number of PV strings per MPPT			1							
Max. input current per MPPT			16	6			А			
Max. short-circuit current per MPPT			2	0			А			
AC Output										
Nominal output power	3000	3680	4000	4600	5000	6000	W			
Max. output apparent power	3300	3680	4400	5000	5500	6600	VA			
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	А			
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	А			
Nominal output voltage		220 / 230 / 240								
Nominal grid frequency		50 / 60								
Power factor	0.8 leading ~ 0.8 lagging									
Total current harmonic distortion	THDi < 2%									
Efficiency										
Max. efficiency			98.	0%						
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%				
Protection										
Safety protection feature	Anti-isl	anding protee	ion, Arc fault c ction, AC overc ng, Residual cu	current/overvo	ltage/short-c	ircuit protecti	on,			
General Data										
Dimensions (W / H / D)			700 / 30	00 / 268			mn			
Weight			18	8			kg			
Storage temperature range			-40	~ 70			°C			
Operating temperature range			-30	~ 60			°C			
Relative humidity range			0% ~	95%						
Max. operating altitude			40	00			m			
Cooling			Natural co	onvection						
Ingress protection rating			IPE	66						
Installation method			Wall-m	ounted						
Communication	WL	.AN / Fast Ethe	ernet / RS485 /	Sigen Comm	Mod (4G/3G/2	.G)				
Standard Compliance										
Standard ¹	IEC/EN	62109-1 JEC/E	N 62109-2, IEC/	EN 62477 IEC/	EN 61000-6-1 1	EC/EN 61000-	6-2			
o can lo di lo	ico/ ch		52100 2/100/1			20/211 01000				

Sigen PV Inverter 5.0-25.0 kW Three Phase

Sigen PV Max	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	Units
DC Input										
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W
Max. DC input voltage					1100					V
Nominal DC input voltage					600					V
Start-up voltage					180					V
MPPT voltage range					160 ~ 1000	63			5	V
Number of MPP. trackers		2			3			4		
Number of PV strings per MPPT					1					
Max. input current per MPPT					16					А
Max. short-circuit current per MPPT					20					А
AC Output										
Nominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	W
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	VA
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	А
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	А
Nominal output voltage					380 / 400					V
Nominal grid frequency		50 / 60								
Power factor		0.8 leading ~ 0.8 lagging								
Total current harmonic distortion					THDi < 2%					
Efficiency										
Max. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	
Protection										
Safety protection feature		nti-island	ding prote		overcurre	nt/overvo	Itage/sho	ort-circuit	rity protect protection rotection	
General Data										
Dimensions (W / H / D)				70	0 / 300 / 2	283				mm
Weight					36					kg
Storage temperature range					-40 ~ 70					°C
Operating temperature range					-30 ~ 60					°C
Relative humidity range					0% ~ 95%					
Max. operating altitude					4000					m
Cooling				Smo	art air coc	oling				
Ingress protection rating					IP66					
Installation method				We	all-mount	ed				
Communication		WLAN	/ Fast Eth	ernet / RS4	485 / Sige	n Comm	/od (4G/	3G/2G)		
Standard Compliance										
Standard ¹		IEC/EN 6	2109-1. IEC	/EN 62109	-2, IEC/EN	61000-6-	I, IEC/EN F	81000-6-2		
			,						0	



Sigen Energy Gateway

• Multiple breaker positions reserved for SigenStor or other loads • Seamless switch to backup mode, worry-free energy usage • Ready for generator, heat pump or other controllable loads • Support both whole home backup & partial home backup • 350 ms reverse power flow protection of grid & generator • Uninterrupted power supply through PV+ESS/grid/generator



Sigen Energy Gateway HomeMax Single / Three Phase

Sigen Gateway	HomeMax SP	HomeMax TP	Unit		
Grid Connection					
Grid connection type	Single phase	Three phase			
Nominal AC input / output voltage	220 / 230 / 240	380 / 400	V		
Nominal AC input / output current	100	76	A		
Nominal AC input / output power	22 / 23 / 24 50 / 52.6		kW		
Nominal AC frequency	50 /	Hz			
Disruption time of backup switch ¹	C)	m		
AC Output to Backup Port					
Nominal AC output voltage	220 / 230 / 240	380 / 400	V		
Nominal AC output current	100	76	А		
Nominal AC output power	22 / 23 / 24	50 / 52.6	k٧		
Nominal AC frequency	50 /	60	Hz		
Overvoltage category		1			
Inverter Connection / EV Charge	er Port (optional)				
Max. number of connection	3	2			
Nominal AC voltage	220 / 230 / 240	380 / 400	V		
Nominal AC input current	32 38		A		
Compatible EV charger power	7 11/22				
EV charging mode	Solar boost charging, time-ba	ised charging, load balancing			
Smart Port Connection					
Generator output voltage	220 / 230 / 240	380 / 400			
Nominal input / output current	63	76	A		
Nominal AC input / output power	13.8 / 14.5 / 15.1	50 / 52.6	kW		
Generator 2-wire start	Supp				
General Data					
Dimensions (W / H / D)	455 / 660 / 179	510 / 750 / 179	mr		
Weight	19	23	kg		
Storage temperature range	-40	~ 70	°C		
Operating temperature range	-30	~ 55	°C		
Relative humidity range	0% ~	95%			
Max. operation altitude	40	00	m		
Cooling	Natural co	onvection			
Ingress protection rating	IPt	54			
Communication	Fast Ethernet, RS	485, dry contact			
Installation method	Wall me	ounted			

1. Controller is higher than the total power of the home loads.

Preliminary



Sigen Communication Module

- IP66 protection rating, more reliable.
- Plug & play, easy to use
- Support 2G / 3G / 4G communication

Sigen Communication Module

30

Controller / Inverter compatibility

Max. operating altitude



Sigen CommMod	Units
USB	
Plug-and-play	
LED indicators	15
52 / 112 / 33	mm
90	g
IP66	
< 4	W
4G: FDD-LTE / TDD-LTE G: WCDMA / HSDPA / HSUPA / HSPA+ 2G: GSM / GPRS / EDGE3	
-40 ~ 70	°C
-30 ~ 60	°C
0% ~ 95%	
4000	m
Sigen Energy Controller series Sigen Hybrid Inverter series Sigen PV Inverter series	



000 10.00

EASTRON SDM630-Modbus V2 SGS

0000 2 03 (4

Sigen Power Sensor

• 1% high-accuracy power detection for precise control

- LCD real-time info display, easy to operate and check
- Integrates smoothly with Sigenergy devices, no need for setup
- Top class 100 A direct connection in power sensor with built-in CT
- Support export/import limitations and ready for AI evolving
- 100 ms data refresh rate, instantaneo<u>us data feed</u>

Sigen Power Sensor

Sigen Sensor ¹	SP-DH	SP-CT120-DH	TP-DH	TP-CT120-DH	Units
Power Supply					
Grid connection type	1F	22W	3P3W	//3P4W	
AC input voltage range	176	~ 276	173	~ 480	Vac
Nominal AC frequency		50 /	60		Hz
Max. operating current	100	-	100	-	А
Measurement Accuracy					
Voltage accuracy		0.5	5%		
Current accuracy		0.5	5%		
Power accuracy		19	6		
Frequency accuracy		0.2	2%		
Communication					
Interface		RS4	85		
Baud rate		96	00		bps
Protocol		Modbu	JS RTU		
General Data					
Dimensions (W / H / D)	36 / 100 / 63	18 / 118 / 64	72 / 100 / 66	72 / 94.5 / 65	mm
Weight	0.20	0.07	0.32	0.20	kg
Storage temperature range		-40	~ 85		°C
Operating temperature range		-30 -	~ 60		°C
Relative humidity range		0% ~	90%		
Ingress protection rating		IP	51		
Installation method		DIN Rail	35 mm		
CT Accessory					
Number of CT		1	<u>550</u>	3	pcs
Cable length of CT	-	1		1	m
Inner diameter of CT	-	16	- 1	16	mm
Weight of CT		0.09	50 C	0.09	kg
Max. operating current of CT	-	120	-	120	А
Standard Compliance					
Standard		EN 61010-1:2010, EN	61010-2-030:2010		

Sigen EV AC Charger



- Data tracking & scheduled charging on mySigen App
- Dynamic load management to prevent overload, user-friendly charging*
- Easy installation with less steps and top/bottom entry option
- Integrated residual current failure protection reduces installation costs
- IP65 and wall/pole-mounted installation provide high adaptability

* Only works with Sigenergy home energy solution or additional Sigen Power Sensor

Sigen EV AC Charger 7 / 11 / 22 kW

Sigen EVAC	7	11	22	Uni
AC Input & Output				
Nominal charging power	7	11	22	kW
Nominal output voltage	1P/N/PE, 220 ~ 240	3P/N/PE, 220 ~ 240 / 380 ~ 415	3P/N/PE, 220 ~ 240 / 380 ~ 415	V
Output current range	6 ~ 32	6 ~ 16	6 ~ 32	A
Nominal AC frequency		50 / 60		Hz
Vehicle connection	Type I connec	tor / Type 2 connector / Typ	e 2 socket with shutters	
AC input cable width range		2.5 ~ 6.0		mn
Protection				
Integrated DC fault detection ¹		6		m
Integrated AC fault detection ¹	30			m
Flame retardant rating		UL94-5VB		
Over / Under voltage protection		Supported		
Overload protection		Supported		
Over temperature protection		Supported		
PEN protection		Supported		
TIC electricity linky meter interface		Supported		
Randomized charging delay		Supported		
Ground fault protection		Supported		-23
Surge protection		Supported		
Grounding system		TT, TN, IT		
User Interface & Communicat	tion			
Protocol		Modbus TCP		
Communication		4G / WLAN / Fast Ethernet		
	202000000 00 Y	App / Auto-charge (no auth	entication)	
Authentication	RFID card /	App / Auto charge (no auti	ion coulony	
Authentication Display	RFID card /		ionaloutony	
Display		LED indicator / App		
Display Charging mode	Standard charging	LED indicator / App g / Scheduled charging / Sol	ar boost charging	
Display Charging mode Metering	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r	ar boost charging	
Display Charging mode	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported	ar boost charging	
Display Charging mode Metering Dynamic load management	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r	ar boost charging	
Display Charging mode Metering Dynamic load management Phase switching	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported	ar boost charging	mr
Display Charging mode Metering Dynamic load management Phase switching General Data	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported Supported	ar boost charging	
Display Charging mode Metering Dynamic load management Phase switching General Data Dimensions (W / H / D)	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported Supported 234 / 384 / 126	ar boost charging	kg
Display Charging mode Metering Dynamic load management Phase switching General Data Dimensions (W / H / D) Weight (case B / case C)	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported Supported 234 / 384 / 126 4.5 / 6.4	ar boost charging	kg °C
Display Charging mode Metering Dynamic load management Phase switching General Data Dimensions (W / H / D) Weight (case B / case C) Storage temperature range	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported Supported 234 / 384 / 126 4.5 / 6.4 -40 ~ 70	ar boost charging	kg °C
Display Charging mode Metering Dynamic load management Phase switching General Data Dimensions (W / H / D) Weight (case B / case C) Storage temperature range Operating temperature range Relative humidity range	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported 234 / 384 / 126 4.5 / 6.4 -40 ~ 70 -30 ~ 55	ar boost charging	kg °C
Display Charging mode Metering Dynamic load management Phase switching General Data Dimensions (W / H / D) Weight (case B / case C) Storage temperature range Operating temperature range Relative humidity range Max. operating altitude	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported 234 / 384 / 126 4.5 / 6.4 -40 ~ 70 -30 ~ 55 5% ~ 95%	ar boost charging	mr kg °C
Display Charging mode Metering Dynamic load management Phase switching General Data Dimensions (W / H / D) Weight (case B / case C) Storage temperature range Operating temperature range Relative humidity range Max. operating altitude Cooling	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported 234 / 384 / 126 4.5 / 6.4 -40 ~ 70 -30 ~ 55 5% ~ 95% 4000	ar boost charging	kg °C °C
Display Charging mode Metering Dynamic load management Phase switching General Data Dimensions (W / H / D) Weight (case B / case C) Storage temperature range Operating temperature range Relative humidity range Max. operating altitude	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported 234 / 384 / 126 4.5 / 6.4 -40 ~ 70 -30 ~ 55 5% ~ 95% 4000 Natural convection	ar boost charging	kg °C
Display Charging mode Metering Dynamic load management Phase switching General Data Dimensions (W / H / D) Weight (case B / case C) Storage temperature range Operating temperature range Relative humidity range Max. operating altitude Cooling Ingress protection rating Installation method	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported 234 / 384 / 126 4.5 / 6.4 -40 ~ 70 -30 ~ 55 5% ~ 95% 4000 Natural convection IP65 Wall-mounted	ar boost charging	kg °C
Display Charging mode Metering Dynamic load management Phase switching General Data Dimensions (W / H / D) Weight (case B / case C) Storage temperature range Operating temperature range Relative humidity range Max. operating altitude Cooling Ingress protection rating	Standard charging	LED indicator / App g / Scheduled charging / Sol eter with RS485 / Integrated r Supported 234 / 384 / 126 4.5 / 6.4 -40 ~ 70 -30 ~ 55 5% ~ 95% 4000 Natural convection IP65	ar boost charging	kg °C

Protocol	
Communication	
Authentication	RFID card
Display	
Charging mode	Standard charg
Metering	External r
Dynamic load management	
Phase switching	

Sigen EVAC	7	n	22	Units
AC Input & Output				
Nominal charging power	7	11	22	kW
Nominal output voltage	1P/N/PE, 220 ~ 240	3P/N/PE, 220 ~ 240 / 380 ~ 415	3P/N/PE, 220 ~ 240 / 380 ~ 415	V
Output current range	6 ~ 32	6 ~ 16	6 ~ 32	А
Nominal AC frequency		50 / 60		Hz
Vehicle connection	Type I connec	ctor / Type 2 connector / Typ	e 2 socket with shutters	
AC input cable width range		2.5 ~ 6.0		mm ²
Protection				
Integrated DC fault detection ¹		6		mA
Integrated AC fault detection ¹	30			mA
Flame retardant rating		UL94-5VB		
Over / Under voltage protection		Supported		
Overload protection		Supported		
Over temperature protection		Supported		
PEN protection		Supported		
TIC electricity linky meter interface		Supported		
Randomized charging delay		Supported		
Ground fault protection		Supported		
Surge protection		Supported		
Grounding system		TT, TN, IT		
User Interface & Communica	tion			
Protocol		Modbus TCP		
Communication	DEID agend	4G / WLAN / Fast Ethernet	ventiontion)	
	RFID Cara /	App / Auto-charge (no auth LED indicator / App	ientication)	
Display Charging mode	Standard charain	g / Scheduled charging / Sol	lar boost charaina	
Metering		eter with RS485 / Integrated i		
Dynamic load management	Externaling	Supported	notening io	
Phase switching		Supported		
General Data				
Dimensions (W / H / D)		234 / 384 / 126		mm
Weight (case B / case C)		4.5 / 6.4		kg
Storage temperature range		-40 ~ 70		°C
Operating temperature range		-30 ~ 55		°C
Relative humidity range		5% ~ 95%		
Max. operating altitude		4000		m
Cooling		Natural convection		
Ingress protection rating		IP65		
Installation method		Wall-mounted		
Application environment		Outdoor / Indoor		
Standby self-consumption		< 3.6		W
Standard charging cable length		5		m
Standard Compliance				
Standard ²	EN IEC 61851-1, IEC	62995, EN IEC 61851-21-2, ETS	SI EN 300 330 V2.1.1.	

Standard²

Residual direct current protective device (RDC-PD) with integrated AC pulsating DC and 6mA DC detection, evalution and mechanical 1 switching in the Sigen EV AC Charger is tested according to IEC 62955. For all standards refer to the certificates category in the Sigenergy website. 2.

ETSI EN 301 511 V12.5.1, EN IEC 62311, EN50665, ETSI EN 300 328 V2.2.2

mySigen App

Intelligent energy management within touches For homeowners

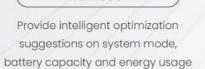
Smarter energy life empowered by mySigen App

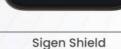


Real-time monitoring

Energy data refresh every 10 seconds Visible energy flow & related devices Auto. system network display on App







Discover industry-leading battery safety features



Fun ambient lighting

Customizable lighting language Add personality to your system



After-sales engineer

Home energy analyst Device mgmt. assistant

Service Provide

+34 606 77 98 xx

Interactive services

Al-integrated service interface Self-diagnosis to identify problems Submit service requests via the App

mysigen App Intelligent energy management within touches For installers

Simplify your installation process, one App does it all

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Leading the Way in Intelligent Manufacturing



Battery production capacity

12 GW Inverter production capacity

Located in the Lin-gang New Area, Shanghai, a hub of world-class enterprises with strong innovative strengths, the 20,000 sqm manufacturing center is equipped with state-of-the-art technology and innovative manufacturing processes that allow us to produce high-quality products with exceptional efficiency. It also features the latest manufacturing execution system (MES) which streamlines our operations and enables real-time monitoring of the production process.

Runs on Solar by Sigenergy solutions for a Sustainable Tomorrow

By adopting Sigenergy products and embracing solar energy, our factory has realized green manufacturing. With a 3,000 sqm PV plant on the rooftop, We have significantly reduced our reliance on fossil fuels and effectively cut carbon footprint during the manufacturing process. Our solar-powered production also translates into better efficiency and higher cost savings for our business. We are proud to be making a positive impact on the environment, and are committed to continuing to lead our sustainability practices to help build a better world for future generations.

Plant Size

∰ 362 kWp 过 3,000 m²

Estimated Annual Generation

🗟 398,200 kWh

Community Contribution per Year

- a 309t CO₂ emission reduced
- 269 equivalent of trees planted



3 240 kWac

🗟 432 kWh



Where Quality Meets Perfection

At Sigenergy, our unwavering commitment to putting the customer first is at the core of everything we do. We firmly believe that delivering top-quality products is paramount to ensuring customer satisfaction and building long-term relationships. With a relentless pursuit of excellence, we constantly strive to develop innovative products that meet and exceed customer expectations. Our strict implementation of rigorous quality control guarantees that every product leaving our factories is of the highest standard. Moreover, we never settle for complacency; Instead, we embrace a culture of continuous improvement to constantly enhance our products and surpass industry standards.



Manufacturing Execution System (MES)

Quality and efficiency is consistently guaranteed by our MES system, which monitors, tracks, documents, and controls the entire manufacturing process from raw materials to finished products, as well as full product lifecycle management.



	RM			
				PRODUCTION STATUS
LINGANG, SH	ANGHAI			DAILY CAPACITY TREND
1 K	1 Line			
100 20	STER			
1 lbr	20			
ALC: N	and the second			
13 A 19 19	-			
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Join Us Achieve Together

As service partners, you can enjoy



More Credibility

As an official service partner, you may get more access to financial support, as well as helping your customers qualify for government rebates.

Training & Certification

We offer continuous technical training to prepare you and uplift your skills. You can earn more customer trust by getting certified.

Recognition & Rewards

The higher customer satisfaction rating you get, the more prizes and financial rewards you'll receive.

Operations Care

Whatever you need, your business gets priority support from us. Large premium partners also receive spare parts without up-front payment.

Simplified Process

Whether for installation or service, our one-stop mobile App will assist you all the way to ensure a quick and smooth experience.

Exclusive Promotion

As a certified service partner, your business potential is maximized by our priority recommendation to your local customers.

