



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

Business Energy Solution

Powering the future of business









SIGENERGY BUSINESS ENERGY SOLUTION

By integrating solar power with energy storage, businesses can effectively reduce ongoing utility cost and reliance on the grid. Not only providing a safety net in the event of power emergencies, but also fulfilling corporate social responsibilities. A competitive edge can be obtained by adopting more sustainable practices that align with company values as well as consumer and market trends.

Optimal Investment

Flexible adaption to different scenarios by modular design Stackable easy installation with instant commissioning Free from complex cabling, reducing costs and labor

Minimal O&M

IP66 protection, worry-free O&M and outdoor application

Comprehensive protection at both system and battery levels

Remote one-click full system diagnosis for easy troubleshooting

Higher Yields

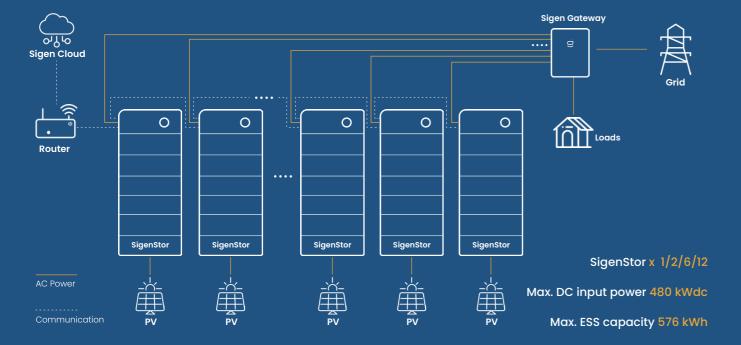
Enhanced power generation achieved through more MPPTs

Pack-level battery optimizer for more usable energy

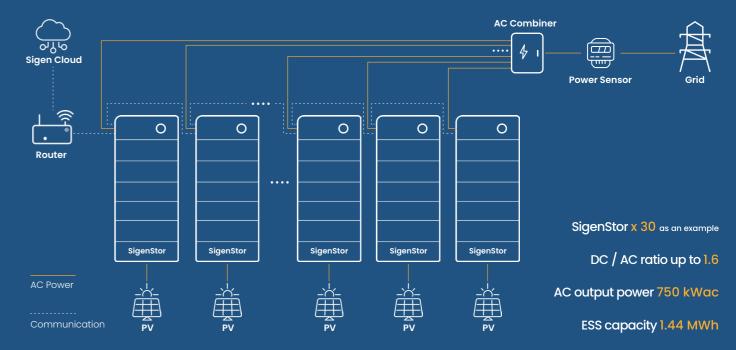
DC coupling system mitigates energy loss from cables



Hybrid system



On-grid system





Sigen Energy Controller

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 1.6
- IP66 system protection rating

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	Unit
DC Input (from PV)										
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					V
Number of MPP, trackers		2			3			4		
Number of PV strings per MPPT					1					
Max. input current per MPPT					16					Α
Max. short-circuit current per MPPT					20					Α
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			0427		380 / 400					V
Nominal grid frequency					50 / 60					Hz
Power factor				0.8 lea	ding ~ 0.8 l	aggina				
Total current harmonic distortion					THDi < 2%	50 0				
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	7000	0000	12.000	10000	380 / 400	22000	20000	00000	00000	V
Nominal output frequency					50 / 60					Hz
Power factor				0.8 lea	ding ~ 0.8 I	aaaina				
Total voltage harmonic distortion					THDv < 2%					
Disruption time of backup switch 1					0					ms
Battery Connection										
Battery module models				Sigon	Stor BAT 5.	0/80				
Number of modules per controller				oigoi	1~6	0,0.0				pcs
Battery module voltage range					600 ~ 900					V
Protection					300 - 300					٧
Tiotection		DC ground	I foult prot	ection, Arc f	ault oirouit	internunter	DC reverse	nolarity o	rotection	
Safety protection feature		Insulation	n monitori	ng, Residual otection, AC	current mo	onitoring, Ty	pe II DC/A	c surge pro	tection,	
General Data										
Dimensions (W / H / D)				70	00 / 300 / 2	60				mn
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				Sm	art air coo	ling				
System ingress protection rating					IP66					
Communication		WL	AN / Fast E	Ethernet / RS	485 / Siger	CommMo	d (4G/3G/:	2G)		
Standard Compliance										
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^{1.} This refers to the load-side disruption time, to achieve this functionality Sigen Energy Controller needs to be used together with Sigen Battery and Sigen Energy Gateway. 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 backup loads.

^{2.} For all standards refer to the certificates category in the Sigenergy website.

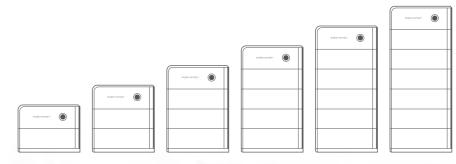


Sigen Battery

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

Sigen Battery 5.0 / 8.0 kWh

SigenStor BAT	5.0	8.0	Units
Performance Specification			
Battery type	LiF	ePO4	
Total energy capacity	5.38	8.06	kWh
Usable energy capacity 1	5.2	7,8	kWh
Battery modules voltage range (three phase system)	600) ~ 900	٧
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	270 / 260	mm
Storage temperature range	-25	5 ~ 60	°C
Operating temperature range	-20	0 ~ 55	°C
Relative humidity range	5%	~ 95%	
Max. operating altitude	4	.000	m
Cooling	Natural (convection	
System ingress protection rating		P66	
nstallation method	Floor standing	/ Wall-mounted	
Standard Compliance			
Standard	IEC/EN 60730-1, UN 38.3, IE	C/EN 62619, IEC/EN 63056, IEC/EN 62040	



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	260			mm

- Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.
- 2. The data in the table is based on the combination of SigenStor BAT 8.0 and SigenStor EC three-phase as an example, with a ground-mounted installation.

Sigen Energy Gateway



- 0 ms load side disruption, worry-free energy usage
- Ready for generator, heat pump and other controllable loads
- 350 ms reserve power flow protection of grid & generator
- Uninterrupted power supply through PV+ESS/grid/generator

Sigen Energy Gateway HomeMax Three Phase

Preliminary

Sigen Gateway	HomeMax TP	Units
Grid Connection		, i
Grid connection type	Three phase	
Nominal AC input / output voltage	380 / 400	V
Nominal AC input / output current	76	A
Nominal AC input / output power	50 / 52.6	kW
Nominal AC frequency	50 / 60	Hz
Disruption time of backup switch	0	ms
AC Output to Backup Port		
Nominal AC output voltage	380 / 400	V
Nominal AC output current	76	A
Nominal AC output power	50 / 52.6	kW
Nominal AC frequency	50 / 60	Hz
Overvoltage category	III	
Inverter Connection		
Max. number of connections	2	
Nominal AC voltage	380 / 400	V
Nominal AC input current	38	A
Smart Port Connection		
Generator output voltage	380 / 400	٧
Nominal input / output current	76	
Nominal AC input / output power	50 / 52.6	kW
Generator 2-wire start	Supported	
General Data		
Dimensions (W / H / D)	510 / 750 / 179	mm
Weight	23	kg
Storage temperature range	-40 ~ 70	°C
Operating temperature range	-30 ~ 55	°C
Relative humidity range	0% ~ 95%	
Max. operation altitude	4000	m
Cooling	Natural convection	
Ingress protection rating	IP54	
Communication	Fast Ethernet, RS485, dry contact	
Installation method	Wall mounted	

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 backup loads.

Sigen Hybrid Inverter

5.0 - 25.0 kW Three Phase



- Battery ready, future proof
- DC ground-fault protection
- DC/AC ratio up to 1.6
- Up to 4 MPP. trackers
- IP66 protection rating

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					V
Number of MPP, trackers		2			3			4		
Number of PV strings per MPPT					1					
Max. input current per MPPT					16					Α
Max. short-circuit current per MPPT					20					Α
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	Α
Nominal output voltage					380 / 400					٧
Nominal grid frequency					50 / 60					Hz
Power factor				0.8 lec	ding ~ 0.8 ld	agging				
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				Siger	Stor BAT 5.0	0/80				
Number of modules per controller				0.50	1~6	7 0.0				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										
					fault circuit					
Safety protection feature					al current m C overcurrer					
General Data										
Dimensions (W / H / D)				7/	00 / 300 / 28	33				mn
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				Sm	nart air cool	ina				
Ingress protection rating				311	IP66	5				
Installation method				W	Vall-mounte	ed				
Communication		W	LAN / Fast F		5485 / Sigen		d (4G/3G/	2G)		
					,5					
Standard Compliance										
Standard 1		IEC/E	N 62109-1.1	EC/EN 6210	9-2, IEC/EN 6	31000-6-1.1	EC/EN 6100	0-6-2		

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

Sigen PV Inverter

5.0 - 25.0 kW Three Phase



- Easy installation with side cabling
- Visible energy tracking on mySigen App
- WLAN, Ethernet & 4G communication
- IP66 protection rating
- DC/AC ratio up to 1.6
- Up to 4 MPP. trackers

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	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					V
Number of MPP, trackers		2			3			4		
Number of PV strings per MPPT					1					
Max. input current per MPPT					16					A
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	Α
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 lec	ding ~ 0.8 l	aggina				
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		Insulatio	on monitor	tection, Arc ing, Residuc rotection, A	al current m	onitoring,	ype II DC/A	C surge pr	otection,	
General Data										
Dimensions (W / H / D)				7	00 / 300 / 2	83				mn
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				Sm	nart air coo	ling				
Ingress protection rating					IP66					
Installation method				٧	Vall-mount	ed				
Communication		W	LAN / Fast E	Ethernet / R	5485 / Siger	n CommMe	od (4G/3G/	2G)		
Standard Compliance										
Standard ¹		IEC/EN 6	2109-1. IFC	C/EN 62109	-2. IEC/FN	61000-6-	1. IEC/EN 6	1000-6-2		
pr 5 mr 1 mr 5 mr 5 mr 5 mr 5 mr 5 mr 5 m		120/2110	-100 1116	, 02100	2) 120/214	5,000	7 12 0 1 2 1 4 0	.500 0 2		

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

Sigen EV DC Charging Module



Experience Fast DC charging

- Max. 25 kW stable bi-directional charging
- 150 V ~ 1000 V charging, wide EV compatibility
- Track & schedule charging on mySigen App
- IP66 system protection, maintenance free
- Charge EV with 100% solar power*

Sigen EV DC Charging Module 12 / 25 kW

Preliminary

SigenStor EVDC ¹	12		25	Units
DC Charging				
Max. charging power of charging port	12.5		25	kW
Max. discharging power of charging port	12.5		25	kW
Output voltage range		150 ~ 1000		V
Max. output current	40		80	A
Charging interfaces		CCS2		
Protection				
Short-circuit protection		Supported		
Over / Under voltage protection		Supported		
Overload protection		Supported		
Over temperature protection		Supported		
Reverse polarity protection		Supported		
Welded contactor check		Supported		
General Data				
Dimensions (W / H / D)		700 / 270 / 260		mm
Weight		40		kg
Storage temperature range		-40 ~ 70		°C
Operating temperature range		-30 ~ 60		°C
Relative humidity range		5% ~ 95%		
Max. operating altitude		4000		m
Cooling		Smart air cooling		
System ingress protection rating		IP66		
Integrated charging cable length ²		5 / 7.5		m
Function				
Authentication	RFIC	card / App / No authentice	ation	
Application	Bi-directional	V2X operation ³ , Smart load	management	
User interfaces		LED indicator, App, RFID		
Remote function		OTA, Remote diagnosis		

^{*} Works with Sigen Energy Controller in business solar system

Sigen EV DC Charging Module needs to be used together with Sigen Energy Controller.

^{2.} 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.

^{3.} V2X functionality is limited by the EV's capabilities. Once the relevant standards are published and tested, V2X feature can be upgraded through the OTA. For the official support of vehicle models and support timelines, please refer to future announcement made on the official website.

Sigen Communication Module

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

Sigen Communication Module

	Sigen CommMod	Units
Connection interface	USB	
Installation type	Plug-and-play	
Display	LED indicators	
Dimensions (W / H / D)	52 / 112 / 33	mm
Weight	90	g
Ingress protection rating	IP66	
Power consumption (typical)	< 4	W
Supported standards	4G: FDD-LTE / TDD-LTE 3G: WCDMA / HSDPA / HSDPA / HSPA+ 2G: GSM / GPRS / EDGE3	
Storage temperature range	-40 - 70	°C
Operating temperature range	-30 ~ 60	°C
Relative humidity range	0% - 95%	
Max. operating altitude	4000	m
Controller / Inverter compatibility	Sigen Energy Controller series Sigen Hybrid Inverter series Sigen PV Inverter series	



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
- Support export/import limitations and ready for Al evolving
- 100 ms data refresh rate, instantaneous data feed

Sigen Power Sensor

Sigen Sensor 1	TP-CT120-DH	TP-CT300-DH	TP-CT600-DH	Units
Power Supply				
Grid connection type		3P3W/3P4W		
AC input voltage range		173 ~ 480		Vac
Nominal AC frequency		50 / 60		Hz
Measurement Accuracy				
Voltage accuracy		0.5%		
Current accuracy		0.5%		
Power accuracy		1%		
Frequency accuracy		0.2%		
Communication				
Interface		RS485		
Baud rate		9600		bps
Protocol		Modbus RTU		
General Data				
Dimensions (W / H / D)		72 / 94.5 / 65		mm
Weight	0.20	0.20	0.23	kg
Storage temperature range		-40 - 85		°C
Operating temperature range		-30 - 60		°C
Relative humidity range		0% - 90%		
Ingress protection rating		IP51		
Installation method		DIN Rail 35 mm		
CT Accessory				
Number of CT	3	3	3	pcs
Cable length of CT	1	1	1	m
Inner diameter of CT	16	24	36	mm
Weight of CT	0.09	0.2	0.4	kg
Max. operating current of CT	120	300	600	A
Standard Compliance				
Standard	E	N 61010-1:2010, EN 61010-2-030:20	10	

1. For more models refer to the Sigenergy website.





6 GWh

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 software (MES) which streamlines our operations and enables real-time monitoring of the production process.





By adopting Sigenergy products and embracing solar energy, our factory has achieved 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

☑ 3,000 m²



(b) 240 kWac

₹ 432 kWh

Estimated Annual Generation

398,200 kWh

Community Contribution per Year

\$\Phi\$ 269 equivalent of trees planted

Turning the Office into a Green Space with Renewable Energy

We have implemented a sustainable office by installing a 1,050 sqm PV plant and a 448 kWh energy storage system on the rooftop. This strategic investment not only ensures an abundant supply of clean energy but also leads to substantial reductions in carbon emissions. This system features a robust 0 ms load side disruption function, ensuring uninterrupted power supply for the entire office, which provides each employee with a worry-free and green energy usage experience.

Plant Size

🗓 1,050 m²



350 kWac

3 448 kWh

Estimated Annual Generation

210,540 kWh

Community Contribution per Year

210t CO₂ emission reduced

\$\text{\Phi}\$ 241 equivalent of trees planted





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.





Flexible to accommodate various scenarios









Our systems are modular and easily stackable, starting from 5 kWh for the energy storage battery. It can finely match different capacity requirements, flexibly adapting to various small commercial and industrial business requirements. The modular design with quick connectors enables easy installation just like building LEGO blocks. With a complete system commissioning time of less than 10 minutes, rapid & low cost deployment is easily achievable.

