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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.

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SIGENERGY

Business Energy Solution





ABOUT SIGENERGY

PRODUCT

Business Energy Solution Product Portfolio

TRUSTED PARTNER

Intelligent Manufacturing
Solar-powered Manufacturing
Solar-powered Green Office
Quality Assurance
Various Applications
Service Partner





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

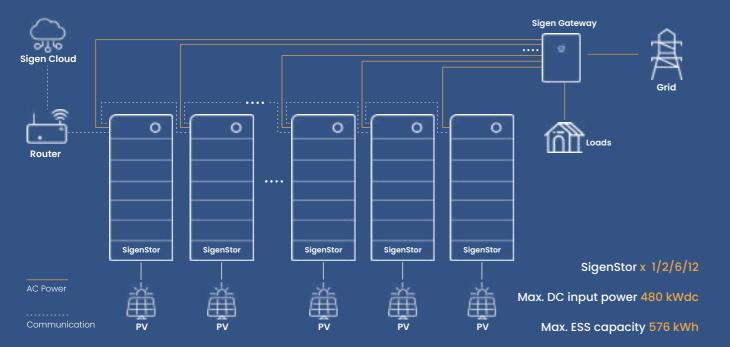
Enhanced power generation achieved through more MPPTs

Pack-level battery optimizer for more usable energy

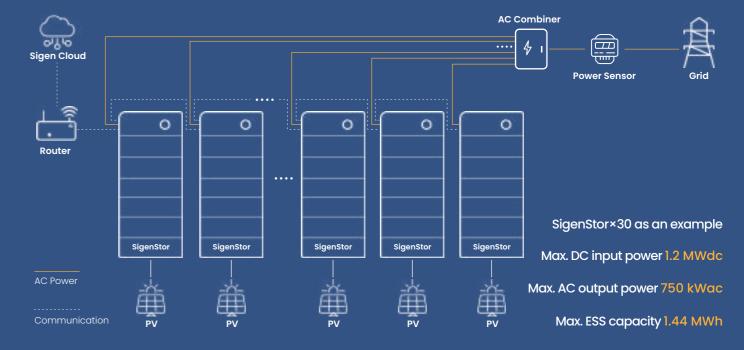
DC coupling system mitigates energy loss from cables



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 Australia

SigenStor EC	5.0 TP	10.0 TP	15.0 TP	25.0 TP	Units
DC Input (from PV)					
Max. PV power	8000	16000	24000	40000	W
Max. DC input voltage		11	00		V
Nominal DC input voltage		6	00		V
Start-up voltage		18	30		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		1	6		Α
Max. short-circuit current per MPPT		2	20		А
AC Output (on-grid)					
Nominal output power	5000	9999	15000	25000	W
Max. output apparent power	5500	9999	15000	27500	VA
Nominal output current	7.6	14.4	21.7	38.0	Α
Max. output current	8.4	14.4	21.7	41.8	A
Nominal output voltage		380	/ 400		
Nominal grid frequency		50	/ 60		Hz
Power factor		0.8 leading	~ 0.8 lagging		
Total current harmonic distortion			i < 2%		
Efficiency					
Max. efficiency	98.1%	98.3%	98.3%	98.3%	
European efficiency	96.1%	97.5%	97.9%	98.0%	
AC Output (backup)					
Nominal output power	5000	10000	15000	25000	W
Max. output apparent power	5500	11000	16500	27500	W
Peak output power (10 seconds)	7500	15000	22500	30000	W
Nominal output current	7.6	15.2	22.8	38.0	A
Max. output current	8.4	16.7	25.1	41.8	A
Peak output current (10 seconds)	11.4	22.8	34.2	45.5	A
Nominal output voltage	380 / 400			V	
Nominal output frequency			/ 60		Hz
Power factor			~ 0.8 lagging		
Total voltage harmonic distortion			/ < 2%		
Disruption time of backup switch ¹			0		ms
Battery Connection					
Battery module models		SigenStor I	BAT 5.0 / 8.0		
Number of modules per controller		1.	~ 6		pcs
Battery module voltage range		600	~ 900		V
Protection					
Safety protection feature	Insulation moni	toring, Residual curre	circuit interrupter, DC ent monitoring, Type II current/overvoltage/	DC/AC surge prot	ection,
General Data					
Dimensions (W / H / D)		700 / 3	00 / 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		40	000		m
Cooling		Smart a	ir cooling		,
System ingress protection rating			66		
Communication	WLAN / Fo	ast Ethernet / RS485 /	Sigen CommMod (4	G/3G/2G)	
Standard Compliance		,			
Standard ²	IEC/ENI 60100	9-1 IEC/EN 62100-2 IE	C/EN 61000-6-1, IEC/E	N 61000-6-2	
otariaara	ILO/LIN UZIUS	0 1, 12 0/ LIN 0/ 100 Z, 1E	C, LIV 0.000 0 1, ILC/E	1,01000 0 2	

^{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 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	LiFe	ePO4	
Total energy capacity	5.38	8.06	kWh
Usable energy capacity ¹	5.2	7.8	kWh
Battery modules voltage range	300	~ 900	V
Max. charge / discharge power	2500	4000	W
Max. charge / discharge current	7.5	12.0	А
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) ~ 55	°C
Relative humidity range	5%	~ 95%	
Max. operating altitude	4	000	m
Cooling	Natural o	convection	
System ingress protection rating	IF	P66	
Installation method	Floor standing	/ Wall-mounted	
Standard Compliance			
Standard	IEC/EN 60730-1, UN 38.3, IEC	C/EN 62619, IEC/EN 63056, IEC/EN 620)40

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

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 Home Series Three Phase

Preliminary

Sigen Gateway	Home TP	HomeMax TP	Unit
Grid Connection			237
Orld connection type	Three	phase.	
Nominal AC input / output voltage	380 /	400	V
Nominal AC input / output current	38	78	A
Nominal AC input / output power	26 / 26.3	50 / 52.6	kW
Nominal AC frequency	50 /	60	142
Disruption time of backup switch 1		1	ms
AC Output to Backup Port			
Nominal AC output voltage	380 /	400	V
Nominal AC output current	38	76	A.
Nominal AC output power	26 / 26.3	50 / 52.6	kW
Nominal AC frequency	50 /	80	Hz
Overvoltage category		II .	
Inverter Connection			
Max number of connections	1	2	
Nominal AC voltage	380 /	400	V:
Nominal AC input current	3	8	A
Smart Port Connection			
Generator output voltage		380 / 400	V
Nominal input / output current	E.	76	, A
Nominal AC input / output power		50 / 52.6	kw
Generator 2-wire start	-	Supported	
General Data			
Dimensions (W / H / D)	450 / 300 / 160	510 / 750 / 179	me
Weight	< 15	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	IP!	54	
Communication	Fast Ethernet, RS	485, dry contact	
installation method	Wolling	ounted	

^{*} Generator support is exclusive to the Sigen Energy Gateway HomeMax

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 Australia

Max. PV power Max. DC input voltage Mominal of PV strings Mominal output current per MPPT Max. input current per MPPT Max. short-circuit current per MPPT Max. output (on-grid) Mominal output power Max. output apparent power Mominal output current Mominal output current Mominal output voltage Mominal grid frequency	5000 5500 7.6 8.4	9999 9999 14.4 14.4	24000 00 00 30 1000 3 1 6 20 15000 15000 21.7	40000 4 4 25000 27500	W V V V V V V V V V V V V V V V V V V V
Max. DC input voltage Itominal DC input voltage Itart-up voltage MPPT voltage range Ilumber of MPP. trackers Ilumber of PV strings per MPPT Max. input current per MPPT Max. short-circuit current per MPPT Max. output (on-grid) Ilominal output power Ilominal output current Max. output current Ilominal output current Ilominal output current Ilominal output voltage	5000 5500 7.6	9999 9999 14.4	00 00 00 80 1000 3 1 6 20	25000 27500	V V V V A A A
Max. DC input voltage Itominal DC input voltage Itart-up voltage MPPT voltage range Ilumber of MPP. trackers Ilumber of PV strings per MPPT Max. input current per MPPT Max. short-circuit current per MPPT Max. output (on-grid) Ilominal output power Ilominal output current Max. output current Ilominal output current Ilominal output current Ilominal output voltage	5000 5500 7.6	9999 9999 14.4 14.4	00 30 1000 3 1 6 20 15000	25000 27500	V V V A A A
Iominal DC input voltage tart-up voltage MPPT voltage range Iumber of MPP. trackers Iumber of PV strings per MPPT Max. input current per MPPT Max. short-circuit current per MPPT AC Output (on-grid) Iominal output power Max. output apparent power Iominal output current Max. output current Idax. output current Idax. output current Iominal output voltage	5000 5500 7.6	9999 9999 14.4 14.4	15000 15000	25000 27500	V V
tart-up voltage MPPT voltage range lumber of MPP. trackers lumber of PV strings per MPPT Max. input current per MPPT Max. short-circuit current per MPPT AC Output (on-grid) Iominal output power Max. output apparent power Iominal output current Max. output current Idax. output current Iominal output voltage	5000 5500 7.6	9999 9999 14.4 14.4	1000 3 1 6 20 15000	25000 27500	A A
MPPT voltage range Number of MPP. trackers Number of PV strings per MPPT Max. input current per MPPT Max. short-circuit current per MPPT AC Output (on-grid) Nominal output power Max. output apparent power Nominal output current Max. output current Max. output current Max. output current	5000 5500 7.6	9999 9999 9999 14.4 14.4	1 6 20 15000 15000	25000 27500	A
lumber of MPP. trackers lumber of PV strings per MPPT Max. input current per MPPT Max. short-circuit current per MPPT AC Output (on-grid) lominal output power Max. output apparent power lominal output current Max. output current lominal output voltage	5000 5500 7.6	9999 9999 14.4 14.4	1 6 20 15000	25000 27500	A
Max. input current per MPPT Max. short-circuit current per MPPT AC Output (on-grid) Ilominal output power Max. output apparent power Ilominal output current Max. output current Ilominal output voltage	5500 7.6	9999 9999 14.4 14.4	15000 15000	27500	A
Max. input current per MPPT Max. short-circuit current per MPPT AC Output (on-grid) Ilominal output power Max. output apparent power Ilominal output current Max. output current Ilominal output voltage	5500 7.6	9999 9999 14.4 14.4	15000 15000	27500	A
Max. short-circuit current per MPPT AC Output (on-grid) Iominal output power Max. output apparent power Iominal output current Max. output current Iominal output voltage	5500 7.6	9999 9999 14.4 14.4	15000 15000	27500	W
AC Output (on-grid) Iominal output power Idax. output apparent power Iominal output current Idax. output current Iominal output voltage	5500 7.6	9999 14.4 14.4	15000	27500	
Iominal output power Max. output apparent power Iominal output current Max. output current Iominal output voltage	5500 7.6	9999 14.4 14.4	15000	27500	
lominal output current fax. output current lominal output voltage	7.6	14.4 14.4			\ / /
Max. output current Iominal output voltage		14.4	21.7		VA
lominal output voltage	8.4			38.0	A
· · ·			21.7	41.8	Δ
· · ·		380	/ 400		
		50 / 60			
ower factor	0.8 leading ~ 0.8 lagging				
otal current harmonic distortion		THDi	i < 2%		
Efficiency					
Max. efficiency	98.1%	98.3%	98.3%	98.3%	
uropean efficiency	96.1%	97.5%	97.9%	98.0%	
Additional Features					
Compatible battery module	SigenStor BAT 5.0 / 8.0				
lumber of modules per controller	1~6			pc	
attery module voltage range		600	~ 900		V
Off-grid peak output power (10 seconds)	7500	15000	22500	30000	V
Off-grid peak output current (10 seconds)	11.4	22.8	34.2	45.5	А
Iominal output voltage	380 / 400				V
Protection					
afety protection feature	DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection insulation monitoring, Residual current monitoring, Type II DC/AC surge protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection				
Seneral Data					
vimensions (W / H / D)		700 / 30	00 / 283		mı
Veight			36		— kç
torage temperature range		-40	~ 70		°(
perating temperature range		-30	~ 60		°(
elative humidity range		0% ~	95%		
Max. operating altitude		40	000		n
Cooling		Smart ai	ir cooling		
ngress protection rating			66		-
nstallation method		Wall-m	nounted		
Communication	WLAN / Fas		Sigen CommMod (4	4G/3G/2G)	
Standard Compliance	,		3		

^{1.} 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 Output			'
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	С	CS2	
Protection			
Short-circuit protection	Supp	oorted	
Over / Under voltage protection	Supp	oorted	
Overload protection	Supp	oorted	
Over temperature protection	Supported		
Reverse polarity protection	Supported		
Welded contactor check	Supported		
General Data			
Dimensions (W / H / D)	700 / 2	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	4	000	m
Cooling	Smart c	air cooling	
System ingress protection rating	IF	P66	
Integrated charging cable length ²	5 / 7.5		m
Function			
Authentication	RFID card / App /	No authentication	
Application	Bi-directional V2X operation ³ , Smart load management		
User interfaces	LED indicat	tor, App, RFID	
Remote function	OTA, Remote diagnostics		

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

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

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

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 / HSUPA / 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 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 AI 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	"	11			
Orld connection type		3P3W/3P4W			
AC input voltage range		173 ~ 480		Vac	
Nominal AC frequency		50 / 80		Hz	
Measurement Accuracy					
Voltage accuracy		0.5%			
Current accuracy		0.5%			
Power accuracy	196				
Frequency accuracy	0.2%				
Communication					
Interface		RS485			
Baud rate		9600		bps	
Protocol		Modbus RTU			
General Data					
Dimensions (W / H / D)	1914	72 / 94.5 / 65	0.888	mm	
Weight	0,20	0.20	0.23	kg	
Storage temperature range		-40 - 85		PC	
Operating temperature range		-30 - 60		°C	
Relative humidity range		0% - 90%			
Ingress protection rating	P51				
Installation method		DIN Rail 35 mm			
CT Accessory					
Number of CT	3	3	3	pes	
Coble length of CT	1	1	1	m	
Inner diameter af CT	16	24	36	mm	
Weight of CT	0.09	0.2	0.4	kg	
Max. operating current of CT	120	300	800	А	
Standard Compliance					
Standard	EN	61010-1:2010, EN 61010-2-030:	2010		

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.

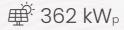


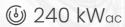


By adopting Sigenergy products and embracing solar energy, our factory has achieved green manufacturing. With a 3,000 sqm PV plant on the rooftop, We have significantly reduced our reliance on fossil fuels and effectively cut carbon footprint during the manufacturing process. Our solar-powered production 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





₹ 432 kWh

Estimated Annual Generation

398,200 kWh

Community Contribution per Year

© 309t CO₂ emission reduced

\$\text{\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



6 250 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



10 minutes, rapid & low cost deployment is easily achievable.

