



SIGENERGY

Home Energy Solution

Let the world enjoy green energy

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Brand

About SIGENERGY

Product

Residential Solution
Product Portfolio

Trusted Partner

Intelligent Manufacturing
Solar-powered Manufacturing
Quality Assurance
Service Partner



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.

SIGEN

Safe **I**ntelligent **G**reen **E**fficient **N**ew

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.

Simple

- All-in-one integrated design
- Easy installation, no external battery wiring
- Auto networking, instant commissioning

Robust

- Big battery cell capacity, low voltage & durable
- Multi-layer full battery safety protection
- All-round energy input rapid cut-off
- Seamless backup switching, outage proof

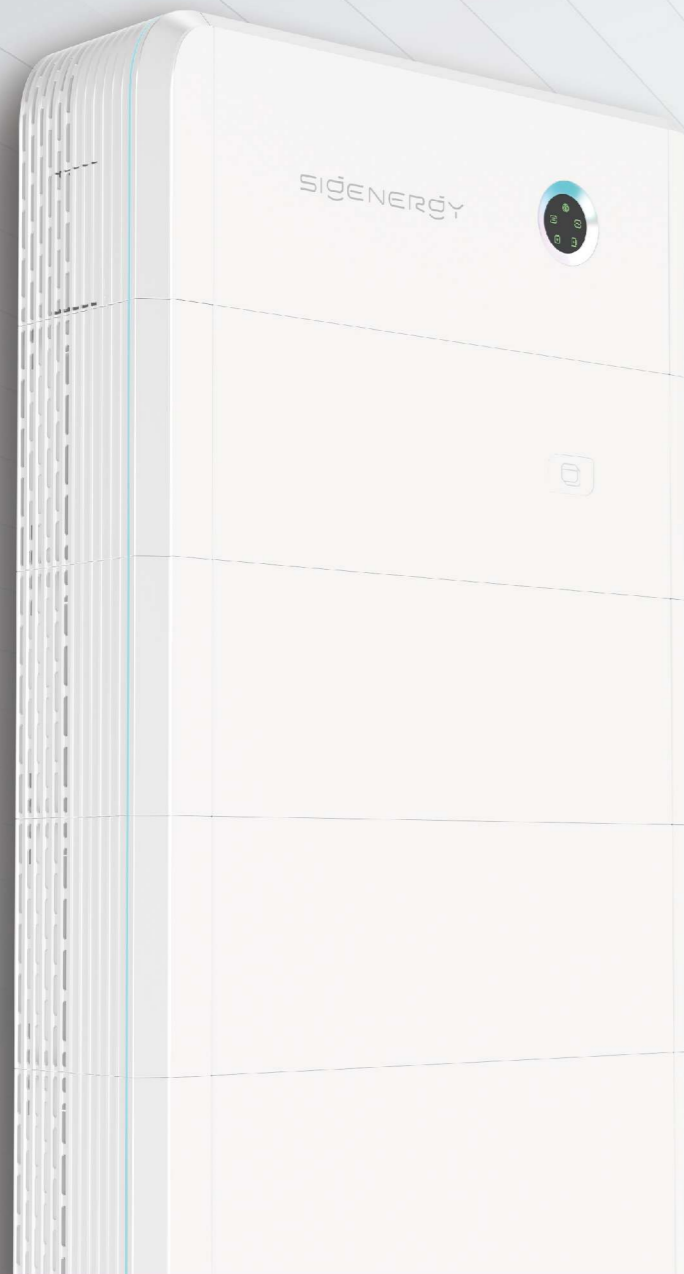
Versatile

- DC-coupled EV charging, green & efficient
- V2H power supply, ample backup energy
- Scalable on demand, flexible in configuration

Intelligent

- AI optimization, enhanced battery cycle life
- AI-tailored energy plan, maximum savings
- AI-integrated end-to-end interactive services





► **Sigen Energy Controller**
for solar + energy storage system
Sigen Storage Controller
for AC-coupled energy storage system

► **Sigen EV DC Charging Module**
Ready for V2X

► **Sigen Battery**

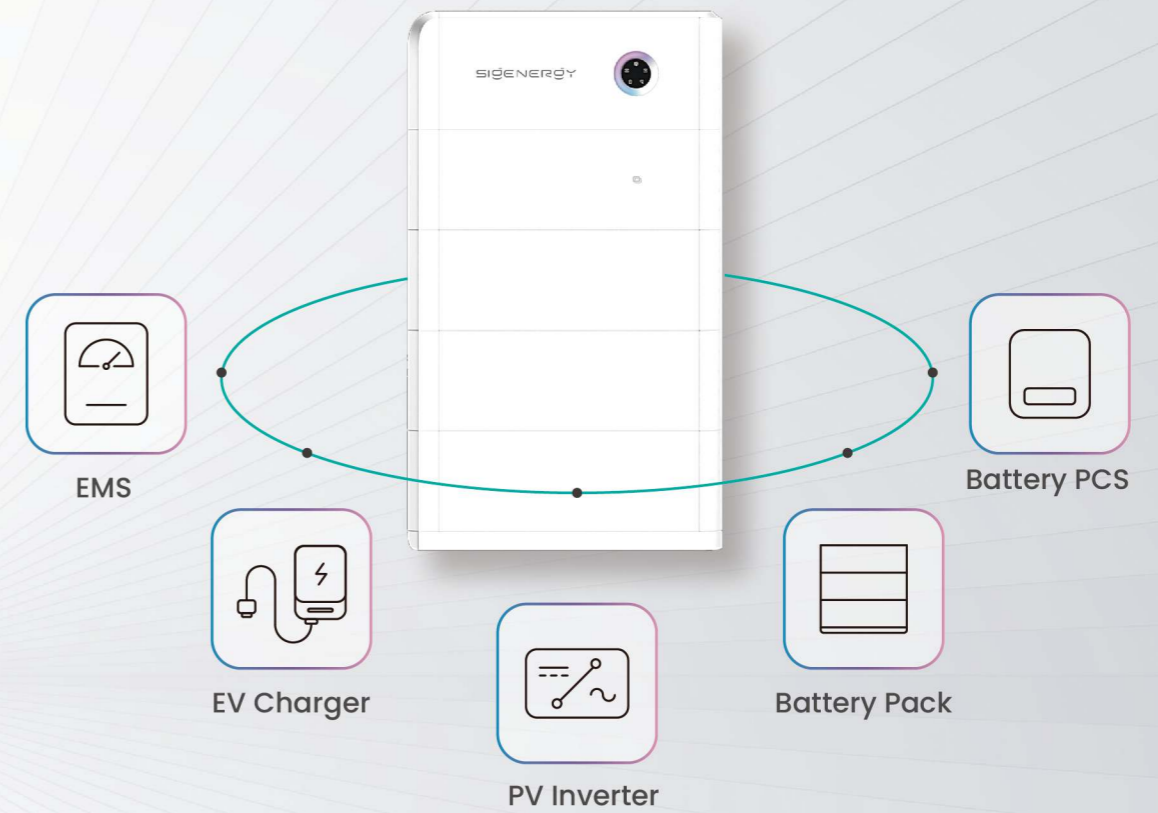
8.0 **5.0**
Energy capacity(kWh)

1 – 6
batteries stackable for a single system

5 kWh – 48 kWh
energy capacity range for a single system

Multiple
systems supported in parallel connection

5-in-1, highly integrated design



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-1 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.

Start small, grow on demand

Controller	x 1	x 1	x 1	x 1	x 1	x 1
Battery	x 1	x 2	x 3	x 4	x 5	x 6
Max. Total Energy Capacity	8 kWh	16 kWh	24 kWh	32 kWh	40 kWh	48 kWh



Sigen Energy Controller

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 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			600				V
Nominal DC input voltage			350				V
Start-up voltage			100				V
MPPT voltage range			50 ~ 550				V
Number of MPP trackers			2				
Number of PV strings per MPPT			1				
Max. input current per MPPT			16				A
Max. short-circuit current per MPPT			20				A
AC Output (on-grid)							
Nominal output power	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			220 / 230 / 240				V
Nominal grid frequency			50 / 60				Hz
Power factor			0.8 leading ~ 0.8 lagging				
Total current harmonic distortion			THDi < 2%				
Efficiency							
Max. efficiency			98.0%				
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	
AC Output (backup)							
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W
Nominal output voltage			220 / 230 / 240				V
Nominal output frequency			50 / 60				Hz
Power factor			0.8 leading ~ 0.8 lagging				
Total voltage harmonic distortion			THDv < 2%				
Switch time to backup mode			5*				ms
Battery Connection							
Battery module models			SigenStor BAT 5.0 / 8.0				
Number of modules per controller			1 ~ 6				pcs
Battery module voltage range			300 ~ 600				V
General Data							
Dimensions (W / H / D)			700 / 300 / 245				mm
Weight			18				kg
Storage temperature range			-40 ~ 70				°C
Operating temperature range			-30 ~ 60				°C
Relative humidity range			0% ~ 95%				
Max. operating altitude			4000				m
Cooling			Natural convection				
Ingress protection rating			IP66				
Noise emission			< 30				dB

* Need to be used together with Sigen Energy Gateway + Sigen Battery.

Sigen Energy Controller 5.0–25.0 kW Three Phase

Preliminary

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)										
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					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					V
Nominal grid frequency					50 / 60					Hz
Power factor					0.8 leading ~ 0.8 lagging					
Total current harmonic distortion					THDi < 2%					
Efficiency										
Max. efficiency					98.5%					
European efficiency					98.0%					
AC Output (backup)										
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W
Nominal output voltage					380 / 400					V
Nominal output frequency					50 / 60					Hz
Power factor					0.8 leading ~ 0.8 lagging					
Total voltage harmonic distortion					THDv < 2%					
Switch time to backup mode					5*					ms
Battery Connection										
Battery module models					SigenStor BAT 5.0 / 8.0					
Number of modules per controller					1 ~ 6					pcs
Battery module voltage range					600 ~ 900					V
General Data										
Dimensions (W / H / D)					700 / 300 / 260					mm
Weight					30					kg
Storage temperature range					-40 ~ 70					°C
Operating temperature range					-30 ~ 60					°C
Relative humidity range					0% ~ 95%					
Max. operating altitude					4000					m
Cooling					Smart air cooling					
Ingress protection rating					IP66					
Noise emission					< 45					dB

* Need to be used together with Sigen Energy Gateway + Sigen Battery.



Sigen Storage Controller

3.0 – 6.0 kW Single Phase

5.0 – 25.0 kW Three Phase

- EMS inside for precise control
- Max. 6 batteries for a single system
- 5 ms quick switch to backup mode
- IP66 protection rating
- WLAN, Ethernet & 4G communication
- Visible energy tracking on mySigen APP



Sigen Storage Controller 3.0–6.0 kW Single Phase

SigenStor AC	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units
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	220 / 230 / 240						V
Nominal grid frequency	50 / 60						Hz
Power factor	0.8 leading ~ 0.8 lagging						
Total current harmonic distortion	THDi < 2%						
Efficiency							
Max. efficiency	98.0%						
AC Output (backup)							
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W
Nominal output voltage	220 / 230 / 240						V
Nominal output frequency	50 / 60						Hz
Power factor	0.8 leading ~ 0.8 lagging						
Total voltage harmonic distortion	THDv < 2%						
Switch time to backup mode	5*						ms
Battery Connection							
Battery module models	SigenStor BAT 5.0 / 8.0						
Number of modules per controller	1 ~ 6						pcs
Battery module voltage range	300 ~ 600						V
General Data							
Dimensions (W / H / D)	700 / 300 / 245						mm
Weight	16.5						kg
Storage temperature range	-40 ~ 70						°C
Operating temperature range	-30 ~ 60						°C
Relative humidity range	0% ~ 95%						
Max. operating altitude	4000						m
Cooling	Natural convection						
Ingress protection rating	IP66						
Noise emission	< 30						dB

* Need to be used together with Sigen Energy Gateway + Sigen Battery.

Sigen Storage Controller 5.0–25.0 kW Three Phase

Preliminary

SigenStor AC	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
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									V
Nominal grid frequency	50 / 60									Hz
Power factor	0.8 leading ~ 0.8 lagging									
Total current harmonic distortion	THDi < 2%									
Efficiency										
Max. efficiency	98.5%									
AC Output (backup)										
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W
Nominal output voltage	380 / 400									V
Nominal output frequency	50 / 60									Hz
Power factor	0.8 leading ~ 0.8 lagging									
Total voltage harmonic distortion	THDv < 2%									
Switch time to backup mode	5*									ms
Battery Connection										
Battery module models	SigenStor BAT 5.0 / 8.0									
Number of modules per controller	1 ~ 6									pcs
Battery module voltage range	600 ~ 900									V
General Data										
Dimensions (W / H / D)	700 / 300 / 260									mm
Weight	30									kg
Storage temperature range	-40 ~ 70									°C
Operating temperature range	-30 ~ 60									°C
Relative humidity range	0% ~ 95%									
Max. operating altitude	4000									m
Cooling	Smart air cooling									
Ingress protection rating	IP66									
Noise emission	< 45									dB

* Need to be used together with Sigen Energy Gateway + Sigen Battery.



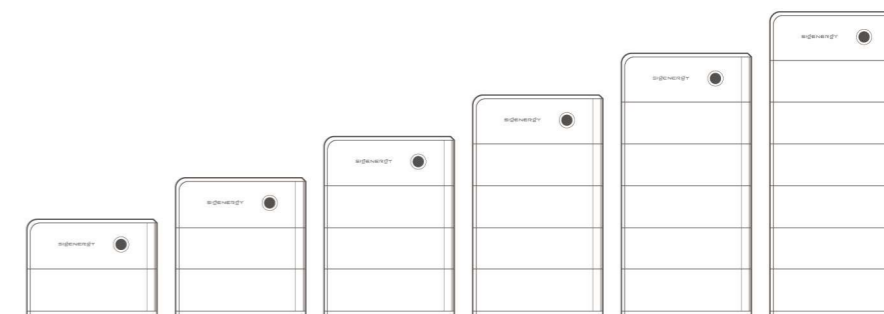
Sigen Battery

- Large cell capacity, low voltage & durable
- Multi-layer full battery safety protection
- Visible battery status on mySigen APP
- Quick connectors for fast installation
- AI 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	LiFePO ₄		
Total energy capacity	5.38	8.06	kWh
Usable energy capacity*	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	57	73	kg
Dimensions (W / H / D)	767 / 270 / 260		mm
Storage temperature range	-25 ~ 60		°C
Operating temperature range	-20 ~ 55		°C
Relative humidity range	5% ~ 95%		
Max. operating altitude	4000		m
Cooling	Natural convection		
Ingress protection rating	IP66		
Noise emission	< 30		dB
Installation method	Floor standing / Wall-mounted		

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



Number of battery modules	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
Peak charge / discharge power (10 seconds)	6	12	18	24	30	36	kW
Total weight	91	164	237	310	383	456	kg
Total height (with base)	640	910	1180	1450	1720	1990	mm
Total width (with decorative covers)				850			mm
Total depth (with decorative covers)				260			mm

The combination of SigenStor BAT 8.0 + SigenStor EC single phase as example



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

Sigen EV DC Charging Module 12.5 / 25.0 kW

Preliminary

SigenStor EVDC	12.5	25.0	Units
DC Output			
Max. charging power	12.5	25	kW
Max. discharging power (V2H, V2G)	12.5	25	kW
Output voltage range	150 ~ 500 (CHAdeMO), 150 ~ 1000 (CCS1 / CCS2)		V
Max. output current	40	80	A
Charging interfaces	CHAdeMO / CCS1 / 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		
Ingress protection rating	IP66		
Integrated charging cable length	5 / 7.5		m
Function			
Authentication	RFID card / Auto. charging (no authentication)		
Application	Bi-directional charging (V2H, V2G), Smart load management, Reservation		
User interfaces	LED indicator, APP, RFID / NFC reader		
Remote function	OTA, Remote diagnosis		
Communication	4G / Wi-Fi / FE		

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



SIGENERGY

Sigen Hybrid Inverter

3.0 – 6.0kW Single Phase

5.0 – 25.0kW Three Phase

- Battery ready, future proof
- DC ground-fault protection
- DC/AC ratio up to 2 (single phase)
- Up to 4 MPP. trackers (three phase)
- IP66 protection rating

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	Units
DC Input							
Max. PV power	6000	7360	8000	9200	10000	12000	W
Max. DC input voltage			600				V
Nominal DC input voltage			350				V
Start-up voltage			100				V
MPPT voltage range			50 ~ 550				V
Number of MPP trackers			2				
Number of PV strings per MPPT			1				
Max. input current per MPPT			16				A
Max. short-circuit current per MPPT			20				A
AC Output (on-grid)							
Nominal output power	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			220 / 230 / 240				V
Nominal grid frequency			50 / 60				Hz
Power factor			0.8 leading ~ 0.8 lagging				
Total current harmonic distortion			THDi < 2%				
Efficiency							
Max. efficiency			98.0%				
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	
Additional Features							
Compatible battery module			SigenStor BAT 5.0 / 8.0				
Number of modules per controller			1 ~ 6				pcs
Battery module voltage range			300 ~ 600				V
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W
Nominal output voltage			220 / 230 / 240				V
General Data							
Dimensions (W / H / D)			700 / 300 / 268				mm
Weight			18				kg
Storage temperature range			-40 ~ 70				°C
Operating temperature range			-30 ~ 60				°C
Relative humidity range			0% ~ 95%				
Max. operating altitude			4000				m
Cooling			Natural convection				
Ingress protection rating			IP66				
Noise emission			< 30				dB
Installation method			Wall-mounted				

Sigen Hybrid Inverter 5.0–25.0 kW Three Phase

Preliminary

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	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					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					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					V
Nominal grid frequency					50 / 60					Hz
Power factor					0.8 leading ~ 0.8 lagging					
Total current harmonic distortion					THDi < 2%					
Efficiency										
Max. efficiency					98.5%					
European efficiency					98.0%					
Additional Features										
Compatible battery module					SigenStor 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
General Data										
Dimensions (W / H / D)					700 / 300 / 283					mm
Weight					30					kg
Storage temperature range					-40 ~ 70					°C
Operating temperature range					-30 ~ 60					°C
Relative humidity range					0% ~ 95%					
Max. operating altitude					4000					m
Cooling					Smart air cooling					
Ingress protection rating					IP66					
Noise emission					< 45					dB
Installation method					Wall-mounted					

Sigen PV Inverter

3.0 – 6.0 kW Single Phase

5.0 – 25.0 kW Three Phase



- Easy installation with side cabling
- 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

Sigen PV Max	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units
DC Input							
Max. PV power	6000	7360	8000	9200	10000	12000	W
Max. DC input voltage			600				V
Nominal DC input voltage			350				V
Start-up voltage			100				V
MPPT voltage range			50 ~ 550				V
Number of MPP trackers			2				
Number of PV strings per MPPT			1				
Max. input current per MPPT			16				A
Max. short-circuit current per MPPT			20				A
AC Output							
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			220 / 230 / 240				V
Nominal grid frequency			50 / 60				Hz
Power factor			0.8 leading ~ 0.8 lagging				
Total current harmonic distortion			THDi < 2%				
Efficiency							
Max. efficiency			98.0%				
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	
General Data							
Dimensions (W / H / D)			700 / 300 / 268				mm
Weight			18				kg
Storage temperature range			-40 ~ 70				°C
Operating temperature range			-30 ~ 60				°C
Relative humidity range			0% ~ 95%				
Max. operating altitude			4000				m
Cooling			Natural convection				
Ingress protection rating			IP66				
Noise emission			< 30				dB
Installation method			Wall-mounted				
Monitoring & Protection							
Anti-islanding protection			Supported				
DC reverse polarity protection			Supported				
Insulation monitoring			Supported				
DC surge protection			Supported				
AC surge protection			Supported				
Residual current monitoring			Supported				
AC overcurrent protection			Supported				
AC short-circuit protection			Supported				
AC overvoltage protection			Supported				

Sigen PV Inverter 5.0–25.0 kW Three Phase

Preliminary

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					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					A
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	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					V
Nominal grid frequency					50 / 60					Hz
Power factor					0.8 leading ~ 0.8 lagging					
Total current harmonic distortion					THDi < 2%					
Efficiency										
Max. efficiency					98.5%					
European efficiency					98.0%					
General Data										
Dimensions (W / H / D)					700 / 300 / 283					mm
Weight					30					kg
Storage temperature range					-40 ~ 70					°C
Operating temperature range					-30 ~ 60					°C
Relative humidity range					0% ~ 95%					
Max. operating altitude					4000					m
Cooling					Smart air cooling					
Ingress protection rating					IP66					
Noise emission					< 45					dB
Installation method					Wall-mounted					
Monitoring & Protection										
Anti-islanding protection					Supported					
DC reverse polarity protection					Supported					
Insulation monitoring					Supported					
DC surge protection					Supported					
AC surge protection					Supported					
Residual current monitoring					Supported					
AC overcurrent protection					Supported					
AC short-circuit protection					Supported					
AC overvoltage protection					Supported					



Sigen Energy Gateway

- 3 breaker positions reserved for SigenStor or other loads
- 5 ms 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

Preliminary

Sigen Gateway	HomeMax SP	HomeMax TP	Units
Grid Connection			
Grid connection type	Single phase	Three phase	
Max. AC input current	100	50	A
Nominal AC output voltage	220 / 230 / 240	380 / 400	V
Nominal AC frequency		50 / 60	Hz
Grid disconnection switchover time		5*	ms
AC Output to Distribution Panel			
Max. AC output current	100	50	A
Nominal AC frequency		50 / 60	Hz
Nominal AC output voltage	220 / 230 / 240	380 / 400	V
Overvoltage category		III	
Inverter Connection / EV Charger Port (optional)			
Max. number of connection		3	
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Max. AC circuit breaker	32	50	A
Max. AC nominal power per inverter connection	6	25	kW
Compatible EV charger power	7	11 / 22	kW
EV charging mode	Solar boost charging, time-based charging, load balancing		
Generator / Controllable Load (optional)			
Max. AC input / output power	14.5	22.2	kW
Max. continuous input / output current	63	32	A
Generator output voltage	220 / 230 / 240	380 / 400	V
Dry contact switch voltage rating		250 / 30	Vac/Vdc
Dry contact switch current rating		1	A
Generator 2-wire start		Supported	
General Data			
Dimensions (W / H / D)		455 / 660 / 179	mm
Weight	15	17	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		
Noise emission		< 25	dB
Communication	FE, RS485, dry contact		
Installation method	Wall mounted		

* Need to be used together with Sigen Energy Controller / Sigen Storage Controller + Sigen Battery.

Sigen Communication Module

- IP66 protection rating, 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 Storage 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 Sigenenergy devices, no need for setup
- Top class 100 A direct connection in single phase grid system
- Support export/import limitations and ready for AI evolving
- 100 ms data refresh rate, instantaneous data feed

Sigen Power Sensor

Sigen Sensor	SP-DH	SP-CT-DH	TP-DH	TP-CT-DH	Units
Power Supply					
Grid connection type	1P2W		3P4W		
AC input voltage range	184 ~ 276		320 ~ 480		V
Nominal AC frequency			50 / 60		Hz
Max. operating current			100		A
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)	36 / 100 / 63	18 / 118 / 64	72 / 100 / 66	72 / 94.5 / 65	mm
Weight	0.23	0.10	0.40	0.28	kg
Storage temperature range			-40 ~ 70		°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	-	1	-	3	
Cable length of CT	-	1	-	1	m
Inner diameter of CT	-	16	-	16	mm
Weight of CT	-	0.11	-	0.11	kg
Max. operating current of CT	-	120	-	120	A
Output current of CT	-	40	-	40	mA

Sigen EV AC Charger



- Green power charging with Sigenenergy home energy solution
- 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 Sigenenergy home energy solution or additional Sigen Power Sensor

Sigen EV AC Charger 7.0 / 11.0 / 22.0 kW

Preliminary

Sigen EVAC	7.0	11.0	22.0	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	A
Nominal AC frequency		50 / 60		Hz
Vehicle connection	Type 1 connector / Type 2 connector / Type 2 socket / Type 2 socket with shutters			
AC input cable width range		2.5 ~ 10.0		mm ²
Protection				
Integrated DC fault detection		6		mA
Integrated AC fault detection		30		mA
Flame retardant rating		UL94-V0		
Over / Under voltage protection		Supported		
Overload protection		Supported		
Over temperature protection		Supported		
PEN protection		Supported		
TIC electricity meter interface		Supported		
Randomized charging delay		Supported		
Ground fault protection		Supported		
Surge protection		Supported		
Grounding system		TT, TN, IT		
User Interface & Communication				
Protocol		Modbus TCP		
Communication		4G / Wi-Fi / Bluetooth / Ethernet		
Authentication		RFID card / APP / Auto-charge (no authentication)		
Display		LED indicator / APP		
Charging mode		Standard charging / Scheduled charging / Solar boost charging		
Metering		External meter with RS485 / Integrated metering IC		
Dynamic load management		Supported		
Phase switching		Supported		
General Data				
Dimensions (W / H / D)		210 / 380 / 150		mm
Weight		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 / Pole-mounted (optional)		
Application environment		Outdoor / Indoor		
Standby self-consumption		< 3.6		W
Integrated charging cable length		5 / 7.5		m

Leading the Way in Intelligent Manufacturing



6 GWh

Battery production capacity

12 GW

Power 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

📏 3,000 m² ⚡ 362 kW_p ⌚ 240 kW_{ac} 📄 432 kWh

Estimated Annual Generation

📄 398,200 kWh

Community Contribution per Year

☁️ 309t CO₂ emission reduced

🌳 269 equivalent of trees planted



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.

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.



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.

Global layout



North America

EMEA

APAC

With global partners, Sigenergy is actively expanding its reach and has established a strong global presence in Europe, North America, and Asia Pacific. Our extensive network across the globe enables our customers to access the latest products and receive unmatched service support. Explore Sigenergy and make the world greener together.



Website



LinkedIn



YouTube

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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