



# SIGENERGY

## Home Energy Solution

Let the world enjoy green energy



**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](http://www.sigenergy.com)

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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

**S**afe **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.

## Let numbers talk Sigenergy is raising industry standards

**15 mins**

stackable installation

**5 layers**

battery protection

**280 Ah**

long cycle-life battery cell

**0 ms**

load-side disruption

**5 mins**

fast commissioning

**5 layers**

system protection

**V2X**

bi-directional charging

**1-click**

full system diagnosis



Simple



Versatile



Robust



Intelligent







▶ **Sigen Energy Controller**  
for solar + energy storage system

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

▶ **Sigen Battery**

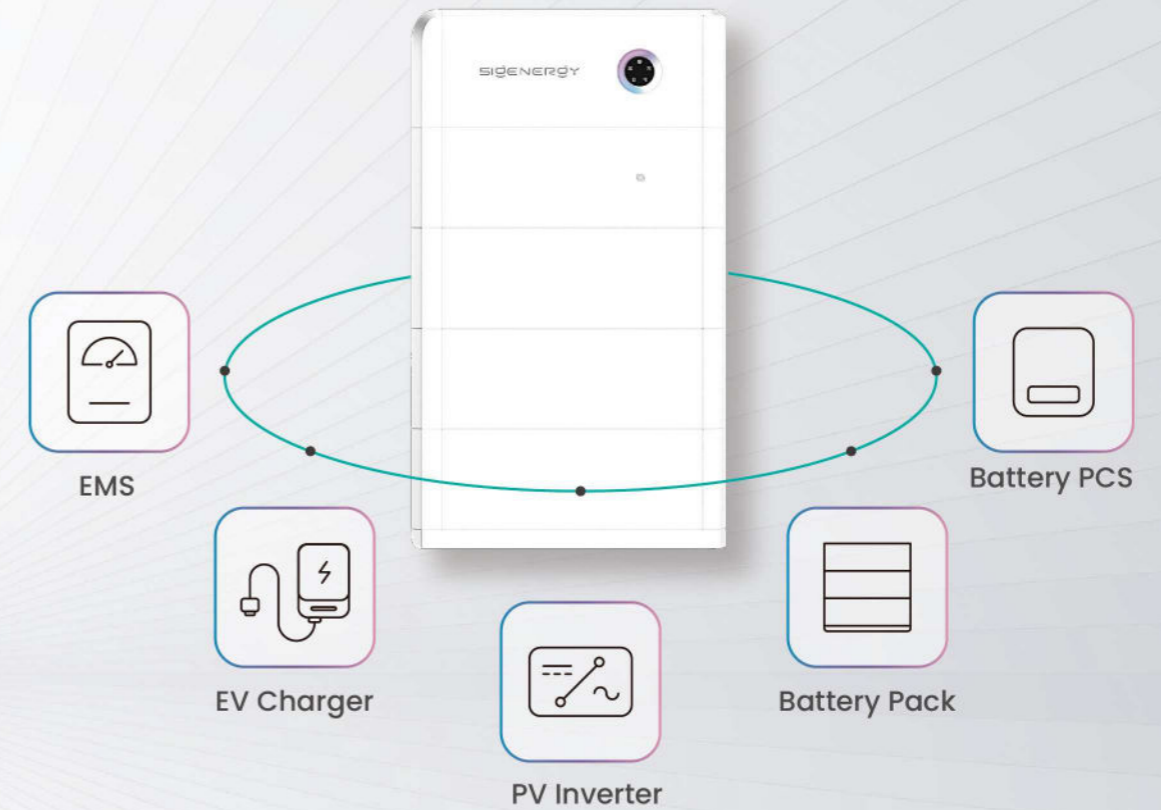
**8.0** **5.0**  
Energy capacity(kWh)

**1 – 6**  
batteries stackbale for per stack

**5 kWh – 48 kWh**  
energy capacity range for per stack

**Multiple**  
systems supported in parallel connection

## 5-in-One, 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-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.

## 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 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	
<b>DC Input (from PV)</b>								
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
<b>AC Output (on-grid)</b>								
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%	
<b>Efficiency</b>								
Max. efficiency							98.0%	
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%		
<b>AC Output (backup)</b>								
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%	
Disruption time of backup switch <sup>1</sup>							0	ms
<b>Battery Connection</b>								
Battery module models							SigenStor BAT 5.0 / 8.0	
Number of modules per controller							1 ~ 6	pcs
Battery module voltage range							300 ~ 600	V
<b>Protection</b>								
Safety protection feature							DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection, Insulation monitoring, Residual current monitoring, DC/AC surge protection	
<b>General Data</b>								
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	
System ingress protection rating							IP66	
Communication							WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)	
<b>Standard Compliance</b>								
Standard <sup>2</sup>							IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 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 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.
- For all standards refer to the certificates category in the Sigenenergy 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		
<b>DC Input (from PV)</b>												
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
<b>AC Output (on-grid)</b>												
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%	
<b>Efficiency</b>												
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%			
<b>AC Output (backup)</b>												
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%	
Disruption time of backup switch <sup>1</sup>											0	ms
<b>Battery Connection</b>												
Battery module models											SigenStor BAT 5.0 / 8.0	
Number of modules per controller											1 ~ 6	pcs
Battery module voltage range											600 ~ 900	V
<b>Protection</b>												
Safety protection feature											DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection, Insulation monitoring, Residual current monitoring, DC/AC surge protection	
<b>General Data</b>												
Dimensions (W / H / D)											700 / 300 / 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	m
Cooling											Smart air cooling	
System ingress protection rating											IP66	
Communication											WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)	
<b>Standard Compliance</b>												
Standard <sup>2</sup>											IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 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 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.
- For all standards refer to the certificates category in the Sigenenergy website.



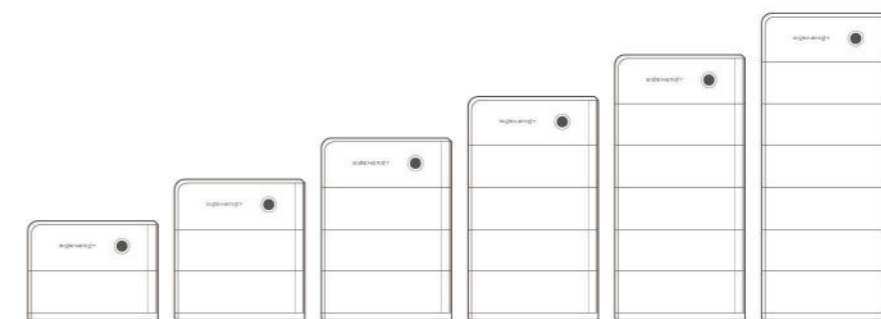


# Sigen Battery

- Large cell capacity, low voltage & durable
- Multi-layer full battery safety protection
- Visible battery status on mySigen App
- Quick connectors for fast installation
- 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
<b>Performance Specification</b>			
Battery type	LiFePO4		
Total energy capacity	5.38	8.06	kWh
Usable energy capacity <sup>1</sup>	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
<b>General Data</b>			
Weight	55	70	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		
System ingress protection rating	IP66		
Installation method	Floor standing / Wall-mounted		
<b>Standard Compliance</b>			
Standard	IEC/EN 60730-1, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62040		



Number of battery modules <sup>2</sup>	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)				850			mm
Total depth (with decorative covers)				260			mm

1. 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 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
- 150V ~ 1000V charging, wide EV compatibility
- Charge EV with 100% solar power
- Track & schedule charging on mySigen App
- IP66 system protection, maintenance free

## Sigen EV DC Charging Module 12 / 25 kW

Preliminary

SigenStor EVDC <sup>1</sup>	12	25	Units
<b>DC Output</b>			
Max. charging power	12.5	25	kW
Max. discharging power (V2H, V2G)	12.5	25	kW
Output voltage range	150 ~ 1000		V
Max. output current	40	80	A
Charging interfaces	CCS2		
<b>Protection</b>			
Short-circuit protection	Supported		
Over / Under voltage protection	Supported		
Overload protection	Supported		
Over temperature protection	Supported		
Reverse polarity protection	Supported		
Welded contactor check	Supported		
<b>General Data</b>			
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 <sup>2</sup>	5 / 7.5		m
<b>Function</b>			
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		

1. 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.





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	
<b>DC Input</b>								
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
<b>AC Output (on-grid)</b>								
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%	
<b>Efficiency</b>								
Max. efficiency							98.0%	
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%		
<b>Additional Features</b>								
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
<b>Protection</b>								
Safety protection feature	DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection, Insulation monitoring, Residual current monitoring, DC/AC surge protection							
<b>General Data</b>								
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	
Installation method							Wall-mounted	
Communication							WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)	
<b>Standard Compliance</b>								
Standard <sup>1</sup>	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2							

<sup>1</sup> For all standards refer to the certificates category in the Sigenenergy website.

## 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	Units		
<b>DC Input</b>												
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
<b>AC Output (on-grid)</b>												
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%	
<b>Efficiency</b>												
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%			
<b>Additional Features</b>												
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
<b>Protection</b>												
Safety protection feature	DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection, Insulation monitoring, Residual current monitoring, DC/AC surge protection											
<b>General Data</b>												
Dimensions (W / H / D)											700 / 300 / 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											Smart air cooling	
Ingress protection rating											IP66	
Installation method											Wall-mounted	
Communication											WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)	
<b>General Data</b>												
Standard <sup>1</sup>	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2											

<sup>1</sup> For all standards refer to the certificates category in the Sigenenergy website.



# Sigen PV Inverter

3.0 – 6.0kW Single Phase

5.0 – 25.0kW 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	
<b>DC Input</b>								
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
<b>AC Output</b>								
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%	
<b>Efficiency</b>								
Max. efficiency							98.0%	
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%		
<b>Protection</b>								
Safety protection feature	DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection, Insulation monitoring, Residual current monitoring, DC/AC surge protection							
<b>General Data</b>								
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	
Installation method							Wall-mounted	
Communication							WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)	
<b>Standard Compliance</b>								
Standard <sup>1</sup>	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2							

<sup>1</sup> For all standards refer to the certificates category in the Sigenenergy website.

## 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		
<b>DC Input</b>												
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W		
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Max. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%			
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<b>Protection</b>												
Safety protection feature	DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection, Insulation monitoring, Residual current monitoring, DC/AC surge protection											
<b>General Data</b>												
Dimensions (W / H / D)											700 / 300 / 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											Smart air cooling	
Ingress protection rating											IP66	
Installation method											Wall-mounted	
Communication											WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)	
<b>Standard Compliance</b>												
Standard <sup>1</sup>	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2											

<sup>1</sup> For all standards refer to the certificates category in the Sigenenergy website.



# 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

Preliminary

Sigen Gateway	HomeMax SP	HomeMax TP	Units
<b>Grid Connection</b>			
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 / 60	Hz
Disruption time of backup switch <sup>1</sup>		0	ms
<b>AC Output to Backup Port</b>			
Nominal AC output voltage	220 / 230 / 240	380 / 400	V
Nominal AC output current	100	76	A
Nominal AC output power	22 / 23 / 24	50 / 52.6	kW
Nominal AC frequency		50 / 60	Hz
Overvoltage category		III	
<b>Inverter Connection / EV Charger Port (optional)</b>			
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	kW
EV charging mode	Solar boost charging, time-based charging, load balancing		
<b>Smart Port Connection</b>			
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		Supported	
<b>General Data</b>			
Dimensions (W / H / D)	455 / 660 / 179	510 / 750 / 179	mm
Weight	19	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		

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.



# 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 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
- 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, instantaneous data feed

## Sigen Power Sensor

Sigen Sensor <sup>1</sup>	SP-DH	SP-CT120-DH	TP-DH	TP-CT120-DH	Units
<b>Power Supply</b>					
Grid connection type	1P2W		3P3W/3P4W		
AC input voltage range	176 ~ 276		173 ~ 480 Vac		
Nominal AC frequency	50 / 60				Hz
Max. operating current	100	-	100	-	A
<b>Measurement Accuracy</b>					
Voltage accuracy	0.5%				
Current accuracy	0.5%				
Power accuracy	1%				
Frequency accuracy	0.2%				
<b>Communication</b>					
Interface	RS485				
Baud rate	9600				bps
Protocol	Modbus RTU				
<b>General Data</b>					
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	IP51				
Installation method	DIN Rail 35 mm				
<b>CT Accessory</b>					
Number of CT	-	1	-	3	pcs
Cable length of CT	-	1	-	1	m
Inner diameter of CT	-	16	-	16	mm
Weight of CT	-	0.09	-	0.09	kg
Max. operating current of CT	-	120	-	120	A
<b>Standard Compliance</b>					
Standard	EN 61010-1:2010, EN 61010-2-030:2010				

1. For more models refer to the Sigenergy website.



# 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 / 11 / 22 kW

Sigen EVAC	7	11	22	Units
<b>AC Input &amp; Output</b>				
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 with shutters			
AC input cable width range		2.5 ~ 6.0		mm <sup>2</sup>
<b>Protection</b>				
Integrated DC fault detection <sup>1</sup>		6		mA
Integrated AC fault detection <sup>1</sup>		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		
<b>User Interface &amp; Communication</b>				
Protocol		Modbus TCP		
Communication		4G / WLAN / Fast 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		
<b>General Data</b>				
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
<b>Standard Compliance</b>				
Standard <sup>2</sup>	EN IEC 61851-1, IEC 62995, EN IEC 61851-21-2, ETSI EN 300 330 V2.1.1, ETSI EN 301 511 V12.5.1, EN IEC 62311, EN50665, ETSI EN 300 328 V2.2.2			

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



# 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



## AI Mode

Provide intelligent optimization suggestions on system mode, battery capacity and energy usage



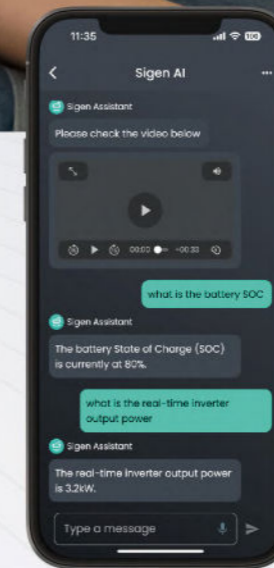
## Sigen Shield

Discover industry-leading battery safety features



## Fun ambient lighting

Customizable lighting language  
Add personality to your system



## Sigen AI

After-sales engineer  
Home energy analyst  
Device mgmt. assistant



## Interactive services

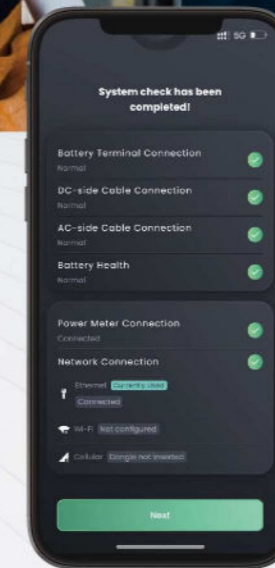
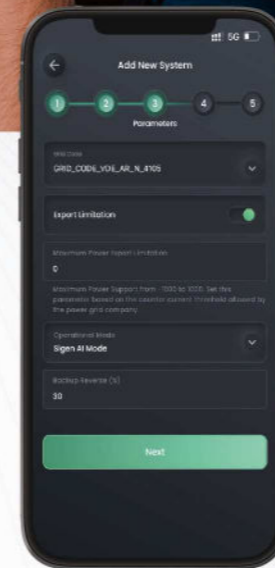
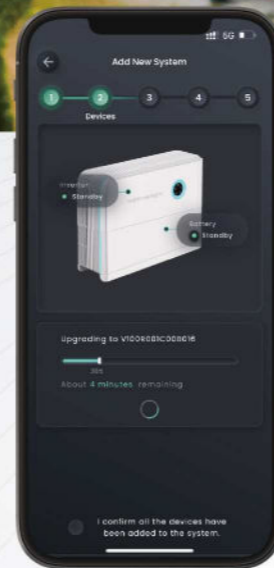
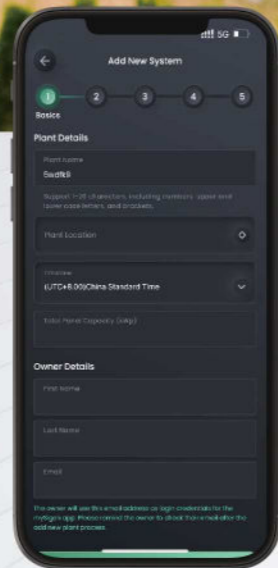
AI-integrated service interface  
Self-diagnosis to identify problems  
Submit service requests via the App



# mySigen App

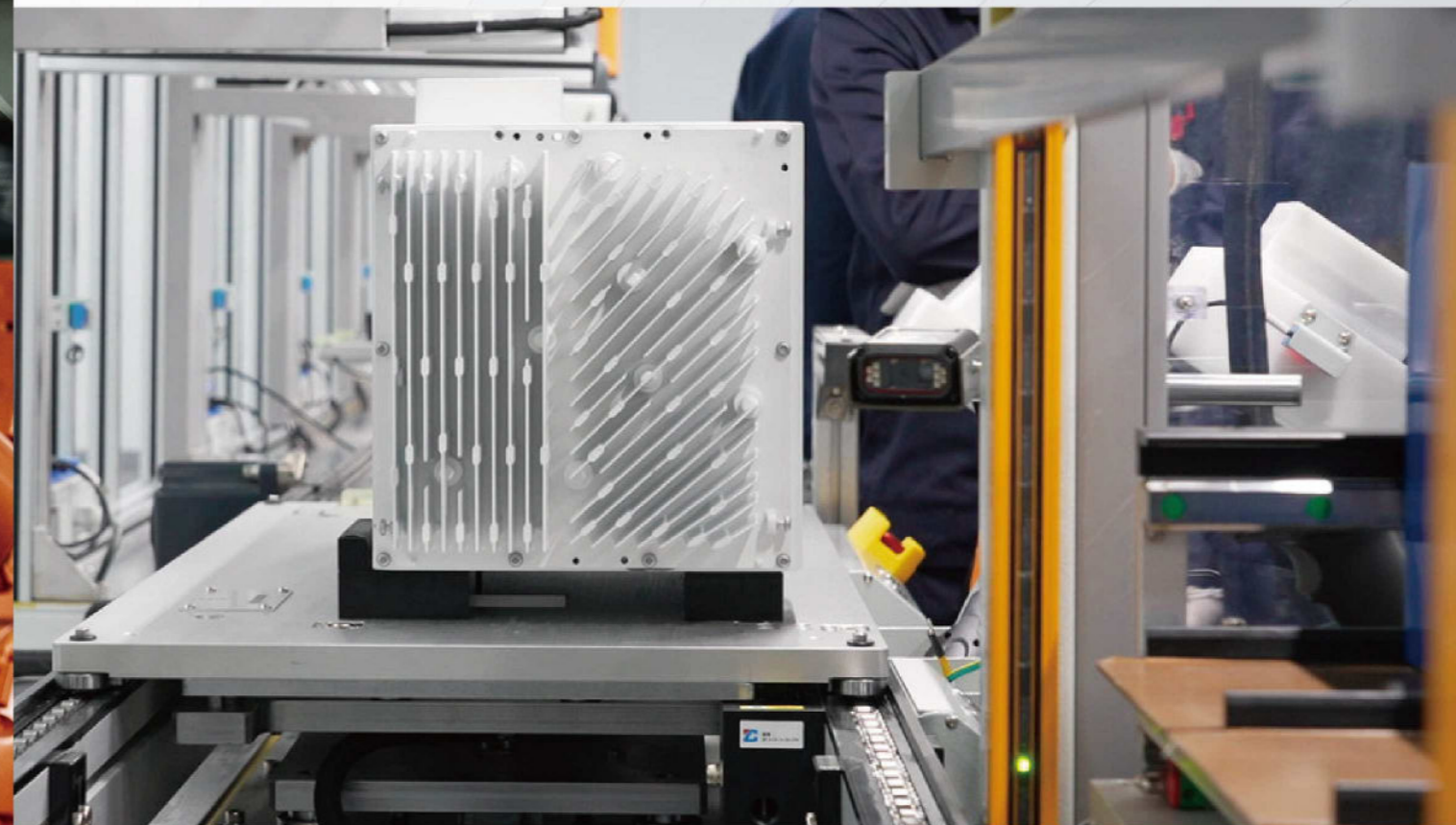
Intelligent energy management within touches  
For installers

Simplify your installation process, one App does it all





# Leading the Way in Intelligent Manufacturing



**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 (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 m<sup>2</sup>  362 kW<sub>p</sub>  240 kW<sub>ac</sub>  432 kWh

### Estimated Annual Generation

 398,200 kWh

### Community Contribution per Year

 309t CO<sub>2</sub> 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.