



# 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.

Version: 20260212  
**Sigenergy Australia Pty. Ltd.**  
[www.sigenergy.com/au](http://www.sigenergy.com/au)  
Suite 02 Level 7, 191 Clarence St, Sydney NSW 2000, Australia

Disclaimer: The information in this file is provided on an "as is" basis. To the fullest extent permitted by law, Sigenergy Technology Co., Ltd. excludes all representations and warranties relating to this file and its contents or which is or may be provided by any affiliates or any other third party, including in relation to any inaccuracies or omissions in this file.

# CONTENTS

## 01 Brand Story

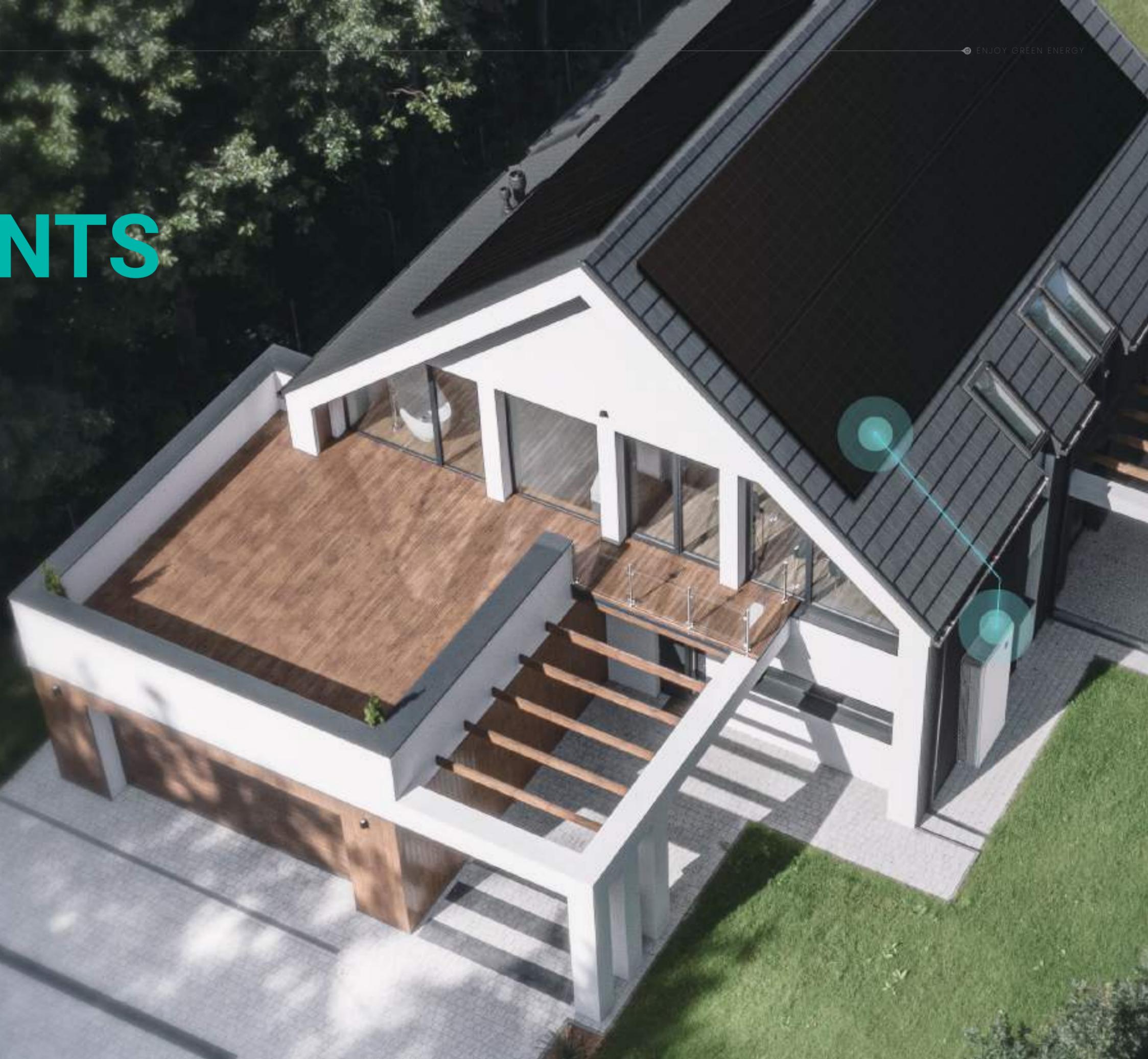
About SIGENERGY

## 02 Product

Residential Solution  
Why Sigenergy?  
Product Portfolio

## 03 Trusted Partner

Solar-powered Manufacturing  
Global Cases



# ABOUT SIGENERGY

**Sigenergy** focuses on developing cutting-edge all-scenario 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**  
Leading AI-powered PV and energy storage innovation.  
Build intelligent energy solutions with superior safety  
ultra simplicity, and outstanding performance.

# SIGEN

Safe Intelligent Green Efficient New



# Sigenergy Home Energy Solutions



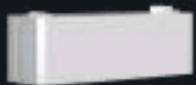
## 5-in-One Sigenergy Stor



**Sigenergy Stor EC**  
For solar + Energy storage system



**Sigenergy Stor EVDC**  
Bi-directional EV charger



**Sigenergy Stor BAT**  
Modular BESS

## Energy Gateway



**Sigenergy Gateway**  
Powerful home energy hub

## Micro Inverter



**Sigenergy Micro Inverter**  
Ideal for rooftop and balcony solar

## Hybrid Inverter



**Sigenergy Hybrid Inverter**  
Efficient & elegant



**Sigenergy Stor BC**  
Connect Sigenergy Battery to Sigenergy Hybrid Inverter



**Sigenergy Stor BAT**  
Modular BESS

## EV AC Charger



**Sigenergy EVAC Charger**  
Power drives with smart energy

## App & Cloud



**Sigenergy Cloud**  
A platform for device lifecycle mgmt. and business decision-making



**mySigenergy App**  
Intelligent energy mgmt. within touches



Why Sigenergy?

# 01 Visualise Every Ray of Energy

Track energy flow with precision—from power generation to consumption. Gain clear insights into your battery's green energy composition, ensuring transparency and efficiency in every charge.

### System-level

Know every watt's source and destination

### Load-level

See the power source behind every watt



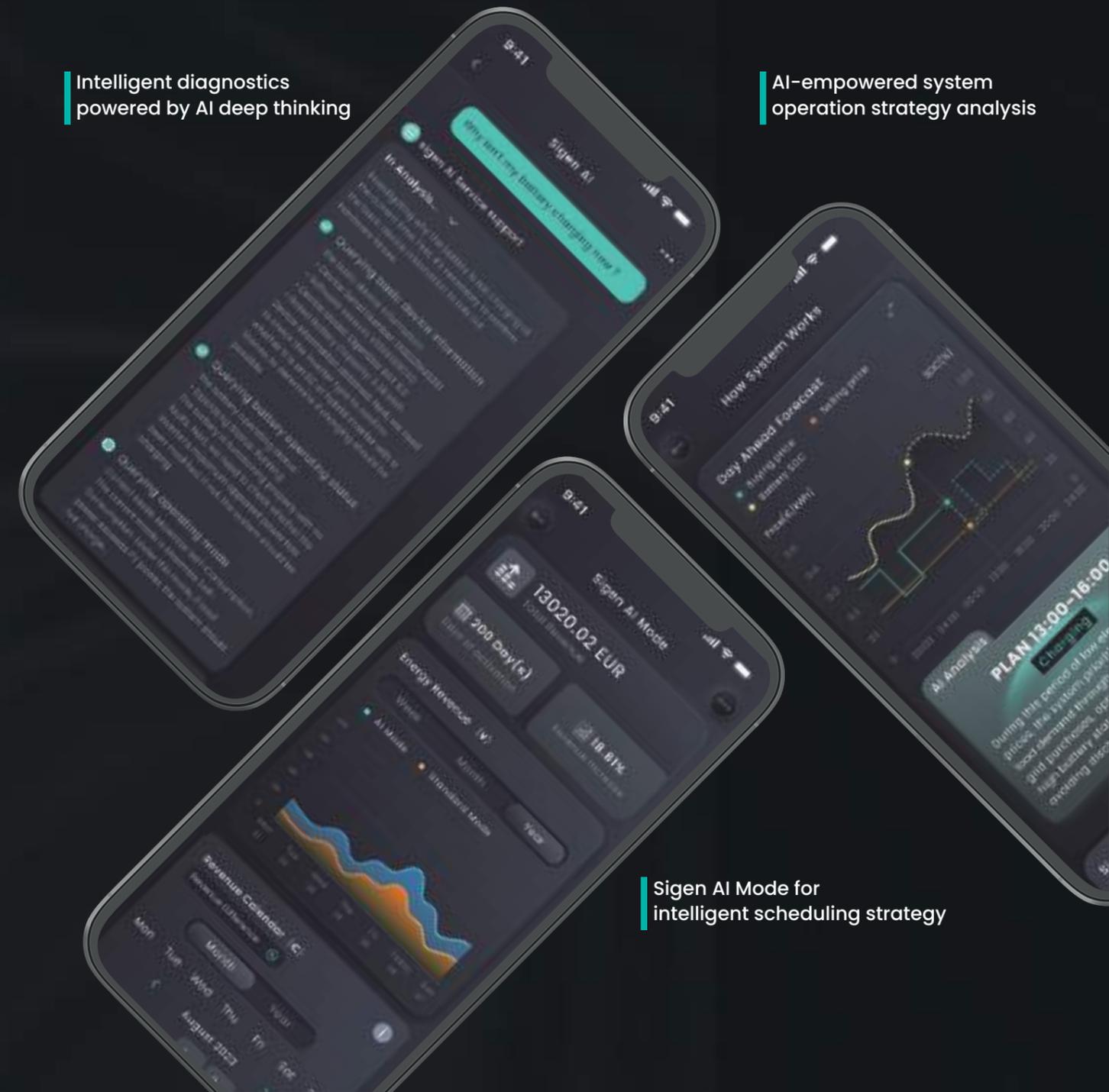
Why Sigenergy?

# 02 Let AI Power Your Energy Freedom

mySigen App integrates AI deeply with Sigen AI Mode, AI-driven insights, and a GPT-4o - powered smart assistant, using advanced AI to boost system efficiency, convenience, and performance.

Intelligent diagnostics powered by AI deep thinking

AI-empowered system operation strategy analysis



Sigen AI Mode for intelligent scheduling strategy

Why Sigenergy?

# 03 Superior Battery Safety

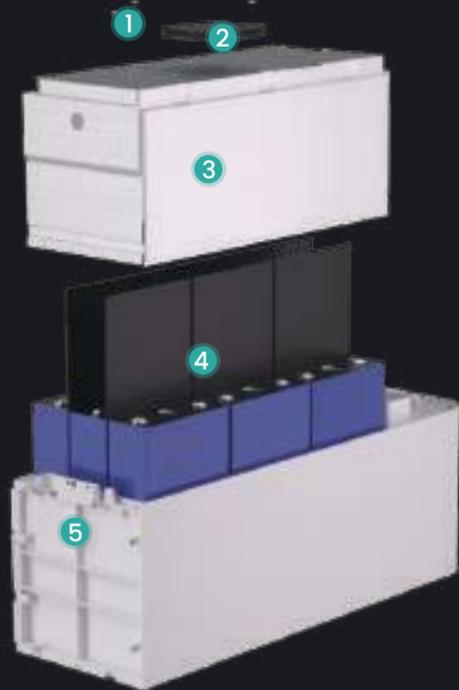
Sigen Battery uses highly reliable LFP cells and features industry-leading protections. Offering 10,000 life cycles\* and setting a new benchmark for battery safety.

Why Sigenergy?

# 04 Goodbye to Power Outage

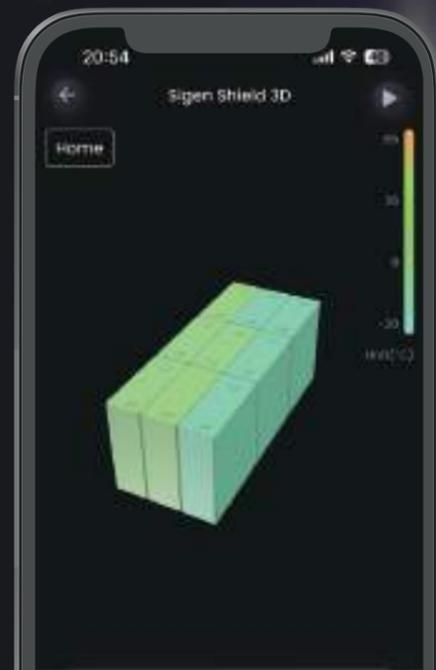
Sigenergy provides the ultimate backup solution. Our patented power control algorithm enables seamless energy switching and robust off-grid performance.

# 5 Layers Battery Safety Protection



- 1 Cell-level temperature monitoring
- 2 Internal fire extinguishing kit
- 3 High-temp. resistance insulated pads
- 4 Aerogel insulated pads
- 5 Decompression valve

Real-time battery monitoring  
**mySigen APP**



# 0 ms Load-side disruption

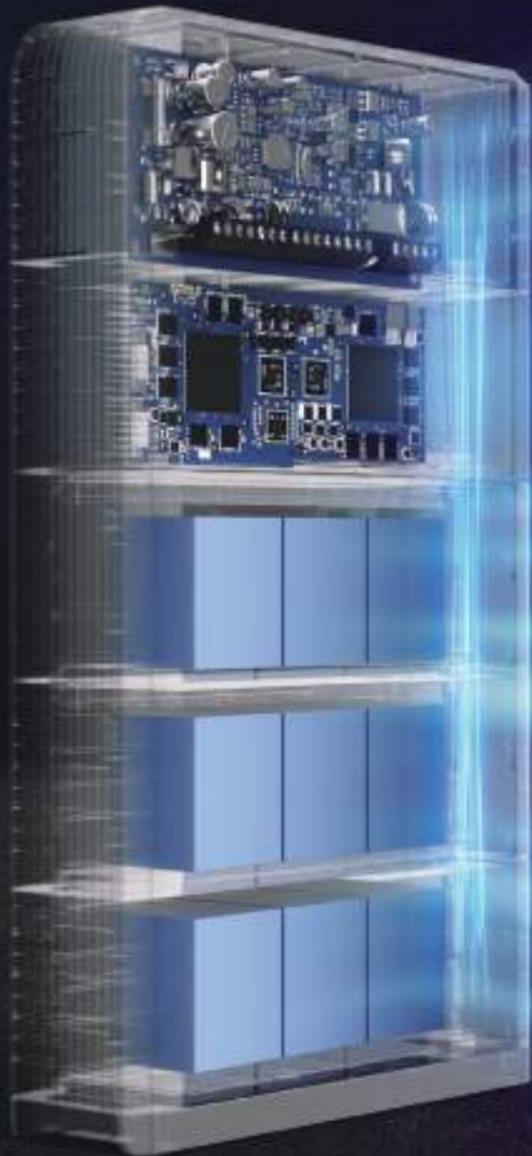


\*This is provided by the battery cell manufacturer. Based on cell test condition of 25±2°C, 0.5C charge and discharge rate and SOH=60%.

Why Sigenenergy?

# 05 Innovative DC-Coupled Architecture

Direct DC bus connection among PV, ESS and EV chargers boosts system efficiency and power density. With a smart battery optimizer for each pack, it supports mixed use of new/aged batteries and active balancing.



**DC BUS**  
Patented architecture

**Optimiser**  
for each battery

**Mixed use**  
Of new/aged batteries

Why Sigenenergy?

# 06 Pioneering Future-proof V2X

The world's first V2X-powered home energy revolution. SigenStor EVDC pioneers 25kw bidirectional EV - Home integration, bringing limitless possibilities to the energy industry.



**V2G**  
Peak shaving and  
VPP dispatch

**V2H**  
Backup your home  
with your EV

Scan to discover  
V2X tested EVs



\*V2X functionality is limited by the EV's capabilities. Once the relevant standards are published, 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 Energy Controller

5.0-12.0 kW

Single Phase

5.0-30.0 kW

Three Phase

- EMS-integrated intelligent management for precision control
- Max. 2.0 DC/AC ratio compatibility, higher energy utilization (Single Phase)
- Unbalanced 3-phase power output, ensuring efficient operation
- 150% peak output power in off-grid mode, instant high-power boost
- Up to 4 MPP trackers for maximum solar energy extraction



## Sigen Energy Controller 5.0–12.0 kW Single Phase Australia

SigenStor EC	5.0 SP	6.0 SP	8.0 SP	10.0 SP	12.0 SP	Units
<b>DC Input (from PV)</b>						
Max. PV power	10000	12000	16000	20000	24000	W
Max. DC input voltage <sup>1</sup>			600			V
Nominal DC input voltage			350			V
Start-up voltage			100			V
MPPT voltage range			50 ~ 550			V
Number of MPP trackers	2	2	3	4	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	4999	6000	8000	9999	12000	W
Max. output apparent power	4999	6600	8800	9999	12000	VA
Nominal output current	21.7	27.3	36.4	43.4	54.6	A
Max. output current	21.7	30.0	40.0	43.4	54.6	A
Nominal output voltage	220 / 230 / 240			220 / 230		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%	98.0%	97.6%	97.6%	97.6%	
European efficiency	97.4%	97.4%	97.0%	97.0%	97.0%	
<b>AC Output (backup)</b>						
Nominal output power	5000	6000	8000	10000	12000	W
Max. output apparent power	5500	6600	8800	11000	13200	VA
Peak output power (10 seconds)	7500	9000	12000	15000	18000	W
Nominal output current	22.7	27.3	36.4	45.5	54.6	A
Max. output current	25.0	30.0	40.0	50.0	60.0	A
Peak output current (10 seconds)	34.1	40.9	54.6	68.2	81.8	A
Nominal output voltage	220 / 230 / 240			220 / 230		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>2</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 reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter <sup>3</sup> , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection					
<b>General Data</b>						
Dimensions (W / H / D)	700 / 300 / 245		700 / 300 / 260			mm
Weight	18		36			kg
Storage temperature range			-40 ~ 70			°C
Operating temperature range			-30 ~ 60			°C
Relative humidity range			0% ~ 100%			
Max. operating altitude			4000			m
Cooling	Natural convection		Smart air cooling			
System ingress protection rating			IP66			
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)					
<b>Standard Compliance</b>						
Standard <sup>4</sup>	IEC 62109-1:2010, IEC 62109-2:2011, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2, AS/NZS 4777.2:2020+AI:2024					

- The inverter will initiate protection if the input voltage exceeds the MPPT operating voltage range.
- 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.
- This is an optional feature only supported in certain models, please contact Sigen Energy for more information.
- For all standards refer to the certificates category on the Sigen Energy website.

## Sigen Energy Controller 5.0–30.0 kW Three Phase Australia

SigenStor EC	5.0 TP	10.0 TP	15.0 TP	20.0 TP	25.0 TP	30.0 TP	Units
<b>DC Input (from PV)</b>							
Max. PV power	8000	16000	24000	32000	40000	48000	W
Max. DC input voltage <sup>1</sup>			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	3	4	4	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	9999	15000	20000	25000	29999	W
Max. output apparent power	5000	9999	15000	22000	27500	29999	VA
Nominal output current	7.2	14.4	21.7	30.4	38.0	43.4	A
Max. output current	7.2	14.4	21.7	33.4	41.8	43.4	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%	98.3%	98.3%	98.3%	98.3%	98.4%	
European efficiency	96.1%	97.5%	97.9%	97.9%	98.0%	98.0%	
<b>AC Output (backup)</b>							
Nominal output power	5000	10000	15000	20000	25000	30000	W
Max. output apparent power	5500	11000	16500	22000	27500	33000	VA
Peak output power (10 seconds)	7500	15000	22500	30000	30000	36000	W
Nominal output current	7.6	15.2	22.8	30.4	38.0	45.6	A
Max. output current	8.4	16.7	25.1	33.4	41.8	50.1	A
Peak output current (10 seconds)	11.4	22.8	34.2	45.6	45.6	54.7	A
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>2</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 reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter <sup>3</sup> , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection						
<b>General Data</b>							
Dimensions (W / H / D)				700 / 300 / 260			mm
Weight	36	36	36	36	36	38	kg
Storage temperature range				-40 ~ 70			°C
Operating temperature range				-30 ~ 60			°C
Relative humidity range				0% ~ 100%			
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>4</sup>	IEC 62109-1:2010, IEC 62109-2:2011, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2, AS/NZS 4777.2:2020+AI:2024						

- The inverter will initiate protection if the input voltage exceeds the MPPT operating voltage range.
- 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.
- This is an optional feature only supported in certain models, please contact Sigen Energy for more information.
- For all standards refer to the certificates category on the Sigen Energy website.

# Sigen EV DC Charging Module

- World's first V2X-integrated all-in-one home energy system
- 25kW bi-directional charging, rapid replenishment for EVs
- 150V-1000V charging voltage, universal EV compatibility
- IP66 protection rating, maintenance-free, always reliable
- Support 100% green charging, drive with sun power



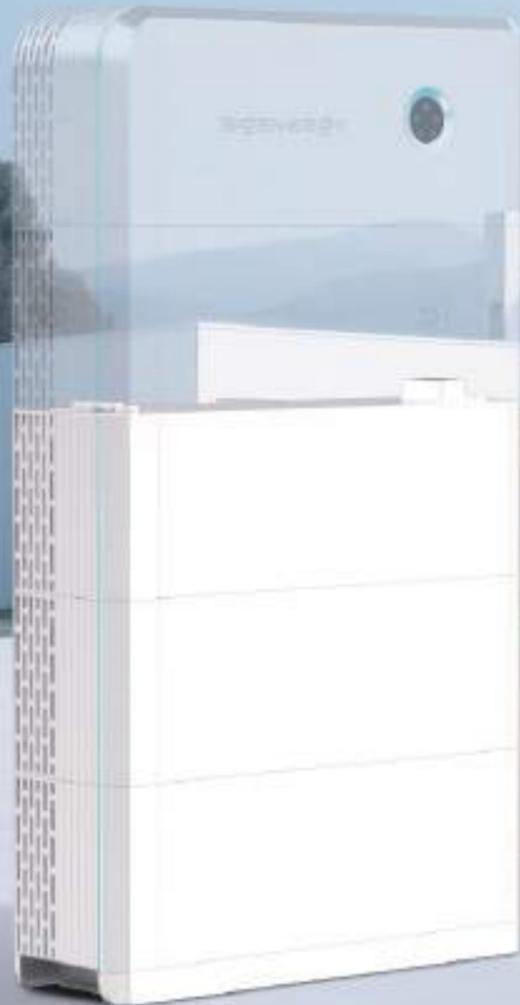
## Sigen EV DC Charging Module

SigenStor EVDC <sup>1</sup>	12	25	Units
<b>DC Charging</b>			
Max. charging power of charging port	12.5	25	kW
Max. discharging power of charging port	12.5	25	kW
Operation voltage range	150 - 1000		V
Max. operation current	40	80	A
Charging interface	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 <sup>2</sup>	37 (5m cable) / 39 (7.5m cable) / 41 (10m cable)		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>3</sup>	5 / 7.5 / 10		m
<b>Function</b>			
Authentication	RFID card / App / No authentication		
	Scheduled Charging	The system supports setting the charging start times	
Smart Charging	PV Surplus Charging	The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power.	
	Fast Charging	The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging.	
Application	Bi-directional V2X operation <sup>4</sup> , Smart load management		
User interfaces	LED indicator, App, RFID		
Remote function	OTA, Remote diagnostics		
OCPD protocol	OCPP 1.6J ED 2		
<b>Standard Compliance</b>			
Standard <sup>5</sup>	EN IEC 61851-1, EN 61851-23, EN IEC 61851-21-2, ETSI EN 303 645		

1. Sigen EV DC Charging Module needs to be used together with Sigen Energy Controller.
2. The net weight includes the CCS2 cable-assembly also, but excludes the exteriors, wall-mounting fixtures and the related attachments.
3. 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.
4. 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.
5. For all standards refer to the certificates category on the Sigenenergy website.

# Sigen Battery

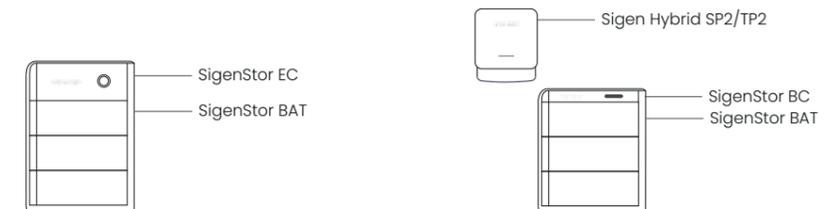
- Premium 280Ah cells with 10,000 cycles, long-lasting & reliable
- 5-layer battery safety protection redefines safety standards
- Pack-level battery optimisation, mix and match, upgrade with ease
- Higher energy density, efficient storage & compact design
- 100% depth of discharge, maximum energy utilisation



## Sigen Battery

SigenStor BAT	5.0	8.0	Units
<b>Performance Specification</b>			
Battery type	LiFePO4		
Cell capacity	280		Ah
Cycle life <sup>1</sup>	10000		
Total energy capacity	5.38	8.06	kWh
Usable energy capacity <sup>2</sup>	5.2	7.8	kWh
Depth of discharge <sup>3</sup>	100%		
Max. charge / discharge power	2500	4000	W
Max. charge / discharge current	7.5	12.0	A
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		
Number of modules per controller	1 ~ 6		pcs
Compatible inverters	SigenStor EC series Sigen Hybrid SP2/TP2 series <sup>4</sup>		

<b>Standard Compliance</b>		
Standard	IEC/EN 60730-1, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62040	
	SigenStor BC	
Operating voltage range (Single Phase)	300 ~ 600	
Operating voltage range (Three Phase)	600 ~ 900	
Weight	8	
Dimensions (W / H / D)	765 / 109 / 260 (without decorative cover)	
Compatible battery system	SigenStor BAT series	
Compatible inverter	Sigen Hybrid SP2/TP2 series	
Communication	CAN	



1. This is provided by the battery cell manufacturer. Based on cell test condition of 25±2°C, 0.5C charge and discharge rate and SOH=60%.
2. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.
3. Refers to the usable energy capacity.
4. SigenStor BC must be used if Sigen Hybrid SP2/TP2 is to be connected to the Sigen Battery.
5. For all standards refer to the certificates category on the Sigenenergy website.

# Sigen Hybrid Inverter

Harmoniously Complementing Your Home



Sigen Hybrid Inverter



Sigen Battery Controller  
(SigenStor BC)

Sigen Battery  
(SigenStor BAT)



**99mm**  
**ultra slim design**



**25 dB**  
**Super silent**



**IP66**



Wide operating temperature  
**From -30 °C to 60 °C**



**99.0%**  
Industry-leading max. efficiency

**200%**  
Peak output power while off-grid  
(Three phase, 10 seconds)

**200%**  
DC/AC ratio for higher yield

## Sigen Hybrid Inverter 3.0–6.0 kW Single Phase Australia

Sigen Hybrid	3.0 SP2	5.0 SP2	6.0 SP2	Units
<b>DC Input (from PV)</b>				
Max. PV power	6000	10000	12000	W
Max. DC input voltage <sup>1</sup>		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		22		A
<b>Battery Connection</b>				
Battery controller models	SigenStor BC			
Battery module models	SigenStor BAT series			
Number of modules per controller	1 ~ 6 pcs			
Battery module voltage range	300 ~ 600 V			
<b>AC Output (on-grid)</b>				
Nominal output power	3000	4999	6000	W
Max. output apparent power	3300	4999	6600	VA
Nominal output current	13.6	21.7	27.3	A
Max. output current	15.0	21.7	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 < 3%			
<b>AC Output (backup)</b>				
Nominal output power	3000	5000	6000	W
Max. output apparent power	3300	5500	6600	VA
Peak output power (10 seconds)	4500	7500	9000	W
Nominal output current	13.6	22.7	27.3	A
Max. output current	15.0	25.0	30.0	A
Peak output current (10 seconds)	20.5	34.1	40.9	A
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 < 3%			
Disruption time of backup switch <sup>2</sup>	0			ms
<b>Efficiency</b>				
Max. efficiency		98.6%		
European efficiency	97.5%	98.3%	98.3%	
<b>Protection</b>				
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter, AC overcurrent/overvoltage/short-circuit protection, Type II DC/AC surge protection, Anti-islanding protection			
<b>General Data</b>				
Dimensions (W / H / D)	373 / 473 / 99			mm
Weight	11.5			kg
Storage temperature range	-40 ~ 70			°C
Operating temperature range	-30 ~ 60			°C
Relative humidity range	0% ~ 100%			
Max. operating altitude	4000			m
Cooling	Natural convection			
System ingress protection rating	IP66			
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)			
Installation method	Wall-mounted			
Night consumption	2.5			W
Noise	25			dB

1. The inverter will initiate protection if the input voltage exceeds the MPPT operating voltage range.
2. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Battery and Sigen Hybrid Inverter. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Hybrid Inverter is higher than the total power of the home loads.

## Sigen Hybrid Inverter 5.0–12.0 kW Three Phase Australia

Sigen Hybrid	5.0 TP2	6.0 TP2	8.0 TP2	10.0 TP2	12.0 TP2	Units
<b>DC Input (from PV)</b>						
Max. PV power	10000	12000	16000	20000	24000	W
Max. DC input voltage <sup>1</sup>		1100				V
Nominal DC input voltage		600				V
Start-up voltage		180				V
MPPT voltage range		160 ~ 1000				V
Number of MPP. trackers	2					
Number of PV strings per MPPT	1		1/2			
Max. input current per MPPT	16		16/32		16/32 A	
Max. short-circuit current per MPPT	22		22/44		22/44 A	
<b>Battery Connection</b>						
Battery controller models	SigenStor BC					
Battery module models	SigenStor BAT series					
Number of modules per controller	1 ~ 6 pcs					
Battery module voltage range	600 ~ 900 V					
<b>AC Output (on-grid)</b>						
Nominal output power	5000	6000	8000	9999	12000	W
Max. output apparent power	5000	6600	8800	9999	13200	VA
Nominal output current	7.2	9.1	12.2	14.4	18.2	A
Max. output current	7.2	10.0	13.4	14.4	20.1	A
Nominal output voltage	220/380, 230/400, 240/415 (3W/N+PE)					V
Nominal grid frequency	50 / 60					Hz
Power factor	0.8 leading ~ 0.8 lagging					
Total current harmonic distortion	THDi < 3%					
<b>AC Output (backup)</b>						
Nominal output power	5000	6000	8000	10000	12000	W
Max. output apparent power	5500	6600	8800	11000	13200	VA
Peak output power (10 seconds)	10000	12000	16000	20000	24000	W
Nominal output current	7.6	9.1	12.2	15.2	18.2	A
Max. output current	8.4	10.0	13.4	16.7	20.1	A
Peak output current (10 seconds)	15.2	18.2	24.3	30.4	36.5	A
Nominal output voltage	220/380, 230/400, 240/415 (3W/N+PE)					V
Nominal output frequency	50 / 60					Hz
Power factor	0.8 leading ~ 0.8 lagging					
Total voltage harmonic distortion	THDv < 3%					
Disruption time of backup switch <sup>2</sup>	0					ms
<b>Efficiency</b>						
Max. efficiency	98.9%	99.0%	99.0%	99.0%	99.0%	
European efficiency	98.1%	98.5%	98.5%	98.5%	98.6%	
<b>Protection</b>						
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter, AC overcurrent/overvoltage/short-circuit protection, Type II DC/AC surge protection, Anti-islanding protection					
<b>General Data</b>						
Dimensions (W / H / D)	477 / 568 / 99					mm
Weight	19.5					kg
Storage temperature range	-40 ~ 70					°C
Operating temperature range	-30 ~ 60					°C
Relative humidity range	0% ~ 100%					
Max. operating altitude	4000					m
Cooling	Natural convection					
System ingress protection rating	IP66					
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)					
Installation method	Wall-mounted					
Night consumption	3					W
Noise	28					dB

1. The inverter will initiate protection if the input voltage exceeds the MPPT operating voltage range.
2. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Battery and Sigen Hybrid Inverter. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Hybrid Inverter is higher than the total power of the home loads.

# Sigen Energy Gateway

- Seamless switchover, ensuring 0ms load-side disruption
- Built-in bypass circuit for enhanced system reliability
- Supports diesel generator connection & smart control
- Real-time current monitoring with 100ms anti-backflow protection
- PV / ESS / grid / generator / V2X, multi-source seamless switching
- Whole-house backup & smart prioritized backup supported

Home series

HomePro series



## Sigen Energy Gateway for Australia

Sigen Gateway	Home SP AU	HomePro SP-F AU	Home TP AU	Units
<b>Grid Connection</b>				
Grid connection type	Single phase	Single phase	Three phase	
Nominal AC input / output voltage	220 / 230 / 240	220 / 230 / 240	380 / 400	V
Nominal AC input / output current	54.6	100	45.6	A
Nominal current of circuit breaker <sup>1</sup>	63	125	63	A
Nominal AC input / output power	12	22	30	kW
Nominal AC frequency		50 / 60		Hz
Disruption time of backup switch <sup>2</sup>		0		ms
<b>AC Output to Backup Port</b>				
Nominal AC output voltage	220 / 230 / 240	220 / 230 / 240	380 / 400	V
Nominal AC output current	54.6	100	45.6	A
Nominal current of circuit breaker <sup>1</sup>	63	125	63	A
Nominal AC output power	12	22	30	kW
Nominal AC frequency		50 / 60		Hz
Overtoltage category		III		
<b>AC Output to Non-Backup Port</b>				
Nominal AC output voltage	220 / 230 / 240	-	380 / 400	V
Nominal AC output current	54.6	-	45.6	A
Nominal AC output power	12	-	30	kW
Nominal AC frequency	50 / 60	-	50 / 60	Hz
<b>Inverter Connection</b>				
Nominal AC voltage	220 / 230 / 240	220 / 230 / 240	380 / 400	V
Nominal AC input current	54.6 (INV1), 32 (INV2) <sup>3</sup>	55 (INV1), 55 (INV2), 32 (INV3) <sup>4</sup>	45.6 (INV1), 32 (INV2) <sup>5</sup>	A
Nominal current of circuit breaker <sup>1</sup>	63 (INV1), 40 (INV2)	63 (INV1), 63 (INV2), 40 (INV3)	63 (INV1), 40 (INV2)	A
<b>Smart Port Connection</b>				
Generator output voltage	220 / 230 / 240	220 / 230 / 240	380 / 400	V
Nominal input / output current	54.6	100	45.6	A
Nominal current of circuit breaker <sup>1</sup>	63	125	63	A
Nominal AC input / output power	12	22	30	kW
Generator 2-wire start		Supported		
<b>General Data</b>				
Dimensions (W / H / D)	450 / 570 / 197 (without decorative cover)	450 / 695 / 177 (without decorative cover)	450 / 570 / 197 (without decorative cover)	mm
Weight	22.5 (without decorative cover)	23.5 (without decorative cover)	25.5 (without decorative cover)	kg
Storage temperature range		-40 ~ 70		°C
Operating temperature range		-30 ~ 55		°C
Relative humidity range		0% ~ 100%		
Max. operation altitude		4000		m
Cooling		Natural convection		
Ingress protection rating		IP55		
Communication		Fast Ethernet , RS485, dry contact		
Installation method	Wall mounted rear wiring supported	Wall mounted	Wall mounted rear wiring supported	

1. The circuit breaker can be adjusted according to actual requirements and cable specifications.
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 backup loads.
3. For Sigenenergy single phase inverter products, 8.0-12.0 kW inverters should be connected to the INV1 port, 3.0-6.0 kW inverters should be connected to the INV2 port. The sum of the parallel power of the Sigenenergy inverters cannot exceed 12 kW.
4. For Sigenenergy single phase inverter products, 8.0-12.0 kW inverters should be connected to the INV1 / INV2 port, 3.0-6.0 kW inverters should be connected to the INV3 port. The sum of the parallel power of the Sigenenergy inverters cannot exceed 22 kW.
5. For Sigenenergy three phase inverter products, 15.0-30.0 kW inverters should be connected to the INV1 port, 5.0-15.0 kW inverters should be connected to the INV2 port. The sum of the parallel power of the Sigenenergy inverters cannot exceed 30 kW.

# SigenMicro Inverter

400 W / 500 W 1-in-1 | 800 W / 1000 W 2-in-1

- Innovative DAB Topology, industry-leading efficiency
- The world's first WLAN Mesh, more reliable and scalable
- The world's first EMS inside, free from network gateway
- AI layout recognition, 5 minutes fast commissioning
- Whitelisting security, enhanced data protection



## SigenMicro Inverter

Preliminary

SigenMicro	400	500	800	1000	Units								
<b>DC Input</b>													
Commonly used module power	320 ~ 540	400 ~ 670	(320 ~ 540) x 2	(400 ~ 670) x 2	W								
Start-up voltage	20				V								
Min. / Max. PV input voltage	16 ~ 60				V								
MPPT voltage range	16 ~ 60				V								
Number of modules connected	1	1	2	2									
Max. input current	16 x 1	16 x 1	16 x 2	16 x 2	A								
Max. input short-circuit current	20 x 1	20 x 1	20 x 2	20 x 2	A								
<b>AC Output</b>													
Grid type	Single Phase												
Nominal output power	400	500	800	1000	W								
Nominal output current	1.82	1.74	1.67	2.27	2.17	2.08	3.64	3.48	3.33	4.55	4.35	4.17	A
Nominal output voltage	220	230	240	220	230	240	220	230	240	220	230	240	V
Nominal output voltage range <sup>1</sup>	184 ~ 275				V								
Nominal grid frequency	50 / 60				Hz								
Grid frequency range <sup>1</sup>	45 ~ 55 / 57 ~ 63				Hz								
Total current harmonic distortion	THDi < 3% (at nominal power)												
Power factor	0.8 leading ~ 0.8 lagging												
Max. units per branch <sup>2</sup> (2.5 mm <sup>2</sup> , 20A)	8	9	9	7	7	7	4	4	4	3	3	3	
Max. units per branch <sup>2</sup> (4.0 mm <sup>2</sup> , 30A)	13	13	14	10	11	11	6	6	7	5	5	5	
<b>Efficiency</b>													
Max. efficiency	97.0%		97.5%										
<b>Monitoring &amp; Protection</b>													
Grid monitoring	Supported												
Ground fault detection	Supported												
PV module-level monitoring	Supported												
Rapid shutdown	Supported												
Surge protection	Supported												
<b>General Data</b>													
Dimensions (W / H / D)	232 / 186 / 35 (without bracket)				mm								
Weight	2.8				kg								
Storage temperature range	-40 ~ 85				°C								
Operating temperature range	-40 ~ 65				°C								
Relative humidity range	0% ~ 100%												
Max. operation altitude	4000				m								
Cooling	Natural convection												
Topology	High Frequency Transformers, Galvanically Isolated												
Night power consumption	< 50				mW								
Ingress protection rating	IP67												
Display	LED												
Communication	WLAN												
AC connection type	Plug and play connector												
Installation method	Bracket mounted												

1. Nominal output voltage range and grid frequency range can vary depending on local requirements.
2. Limitations may differ by region. For the exact number of microinverters permitted per branch circuit, please refer to local regulations and standards. The current capacity of the cable is under normal temperature environment.

# Sigen Power Sensor

For SigenMicro only

- Perfectly matched for SigenMicro series
- Direct cloud connection, zero data loss
- 24/7 monitoring, real-time App access
- Standalone OTA, exportable logs for O&M
- Plug-and-play antenna for easy setup
- Built for extremes from -40 to +70°C



## Sigen Power Sensor

Sigen Sensor	SP-CT100-WI	TP-CT100-WI	Units
<b>Power Supply</b>			
Grid connection type	1P2W	3P3W/3P4W	
AC input voltage range	100 ~ 277	100 ~ 277 (L-N) 173 ~ 480 (L-L)	Vac
Nominal AC frequency		50/60	Hz
Max. operating current		100	A
<b>Measurement Accuracy</b>			
Voltage accuracy		0.5%	
Current accuracy		0.5% (4-100A), 1% (1-4A), 3% (0.06-1A)	
Power accuracy		1%	
Frequency accuracy		0.2%	
<b>Communication</b>			
Interface		WLAN / RS485	
RF band		2.4	GHz
RS485 band rate		9600	bps
RS485 protocol		Modbus RTU	
<b>General Data</b>			
Dimensions (W / H / D)		19 / 90 / 66	mm
Weight		0.1	kg
Storage temperature range		-40 ~ 85	°C
Operating temperature range		-40 ~ 70	°C
Relative humidity range		0% ~ 95%	
Ingress protection rating		IP20	
Installation method		DIN Rail 35 mm	
<b>Standard Compliance</b>			
Standard	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6		

1. This product is only available in specific regions. Please contact Sigenergy or local distributors for details.

# Sigen EVAC Charger

- 100% Green power charging with Sigenenergy home energy solution
- IP65 & IK10 protection rating, worry-free outdoor usage with easy O&M
- Dynamic load management to prevent overload, user-friendly charging\*
- Easy installation with less steps and top/bottom/rear wiring option
- Enable dynamic tariff & Sigen AI mode for smarter scheduling



## 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 2 connector / Type 2 socket with shutter			
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			
Randomized charging delay	Supported			
Ground fault protection	Supported			
Surge protection	Supported			
Grounding system	TT, TN, IT			
<b>User Interface &amp; Communication</b>				
Protocol	RS485, Modbus RTU			
Communication	4G / WLAN / Fast Ethernet			
Authentication	RFID card / App / Auto-charge (no authentication)			
Display	LED indicator / App			
Smart Schedule	The system supports setting the charging start and stop times, charging frequency, and charging mode. Each scheduled time slot allows the charging mode to be set separately between PV Surplus charging and Fast Charging. The system uses PV Surplus to charge EVs, enabling 100% green power.			
Smart Charging PV Surplus Charging	It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power.			
Fast Charging	The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging.			
Metering	External meter with RS485 / Integrated metering IC			
Dynamic load management <sup>3</sup>	Supported			
Phase switching	Supported			
OCPP protocol	OCPP 1.6J ED 2			
<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
Cable entries	Bottom, Top and Rear cable entries			
<b>Standard Compliance</b>				
Standard <sup>4</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. This function needs to be used with SigenStor.
3. This function needs to be used with Sigen Power Sensor.
4. For all standards refer to the certificates category on the Sigenenergy website.

\*This function needs to be used with Sigen Power Sensor.

# Sigen Power Sensor

- WiFi halow remote communication functionality (with Sigen Sensor SubIG Kit)
- Efficient and stable data transmission up to 200m (with Sigen Sensor SubIG Kit)
- 1% high-accuracy power detection for precise control
- Compact IP size, plug-in design for easy installation
- Integrate smoothly with Sigenenergy devices, no need for setup

Sigen Sensor SubIG Kit



Sigen Power Sensor



## Sigen Power Sensor

Sigen Sensor <sup>1</sup>	SP-DH	SP-CT100 <sup>2</sup>	TP-DH	TP-CT100 <sup>2</sup>	Units
<b>Power Supply</b>					
Grid connection type	1P2W		3P3W/3P4W		
AC input voltage range	176 ~276	100 ~ 276	173 ~ 480	176 ~ 276 (L-N) 304 ~ 477 (L-L)	Vac
Nominal AC frequency	50 / 60				
Max. operating current	100	-	100	-	A
<b>Measurement Accuracy</b>					
Voltage accuracy	0.5%				
Current accuracy	0.5%	0.5% (4 ~ 100A)	0.5%	0.5% (4 ~ 100A)	
Power accuracy	1%				
Frequency accuracy	0.2%	0.5%	0.2%	0.5%	
<b>Communication</b>					
Interface	RS485				
Baud rate	9,600				
Protocol	Modbus RTU				
<b>General Data</b>					
Dimensions (W / H / D)	36 / 100 / 63	19 / 94.5 / 68.5 or 18 / 100 / 65.5	72 / 100 / 66	19 / 94.5 / 68.5 or 18 / 100 / 65.5	mm
Weight	0.20	0.07	0.32	0.08	kg
Storage temperature range	-40 ~ 70				
Operating temperature range	-25 ~ 65				
Relative humidity range	0% ~ 90%				
Ingress protection rating	IP20				
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	-	24 / 16	-	24 / 16	mm
Weight of CT	-	0.09 / 0.13	-	0.2 / 0.43	kg
Max. operating current of CT	-	100	-	100	A
<b>Standard Compliance</b>					
Standard	EN 61010-1:2010, EN 61010-2-030:2010				

	Sigen Sensor SubIG Kit	Units
Working mode	AP(master device), STA(slave device)	
Communication method	RS485 / wireless communication	
Network protocol	IEEE 802.11ah	
Operating voltage	85 ~ 277	Vac
Maximum power	2	W
Operating temperature	-25 ~ 55	°C
Dimensions (W/H/D)	18 / 118 / 66	mm
Wireless frequency	915	MHz
Wireless transmission distance <sup>2</sup>	≤ 200	m
Way to install	DIN35mm Rail mounting	

1. For more models refer to the Sigenenergy website.
2. Sensors from two different manufacturers may be shipped interchangeably as they are functionally identical. Please refer to the actual products received for confirmation.
3. Lab tests have shown a maximum horizontal range of up to 200 metres in open spaces, with shorter communication distances when walls are in the way.

# 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 SIM card	Micro-SIM (12mm * 15mm)	
Supported standards	LTE-FDD B1/3/7/8/20/28A LTE-TDD B38/40/41 WCDMA B1/8 GSM/EDGE B3/8	
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	

1. To ensure stable data transmission, the mobile signal for 2G signal  $\geq$  4 bars, 3G/4G signal  $\geq$  3 bars.

# mySigen App

## Intelligent energy management within touches

Smarter energy life empowered by mySigen App



Real-time Monitoring

Monitor real-time energy flow on home screen



Sigen AI Mode

Max savings via smart scheduling that adapts to weather, tariffs and your energy usage pattern



Energy Sankey Diagram

Know where every watt comes from and where it goes



Sigen AI Assistant

Intelligent diagnostics powered by AI deep thinking



Strategy Insight

AI-empowered system operation strategy analysis



Battery Energy Source

Real-time visibility on battery power source composition



# Sigen Cloud

A platform for device lifecycle management and business decision-making.



- Instantly grasp business trends with data visualisation and interaction
- Batch remote system parameter configuration and auto command retry
- Enhanced system monitoring with real-time multi-layer information
- System data updates every 10 seconds, offering quick energy insights
- Sigen AI smart energy assistant, real-time help, always online



## Business Operation

Interactive BI Dashboard  
Installer Points Dashboard  
Points Redemption Mall



## Efficient Maintenance

Alert Management  
Ownership Management  
Fleet Management



## System Monitoring

Status Management  
Real-time Energy Flow  
System Energy Graphs  
Reporting and Download  
Device Management



## Device Monitoring

Real-time Device information  
Parameter Check and Remote Configuration  
Device Historical Curves



## After-sales Service

Warranty Lookup



## Organisation Management

Member Management  
Company Information  
Hierarchy Management



## Value-Added Services

AI Smart Assistant  
Third-party VPP Integration  
Open Northbound Integration

# Leading the Way in Intelligent Manufacturing



Nantong Smart Manufacturing Hub



Shanghai Lingang Manufacturing Center



Shanghai Pudong Manufacturing Center



Located in the Lin-gang Special Area, Shanghai, a hub of world-class enterprises with strong innovative strengths, the 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. Additionally, Sigenergy's core production base, the Nantong Smart Manufacturing Hub, is under construction. Once completed, the facility is expected to produce 300,000+ inverters and battery packs yearly, providing strong manufacturing support to meet growing global demand.

# Powering Homes Worldwide



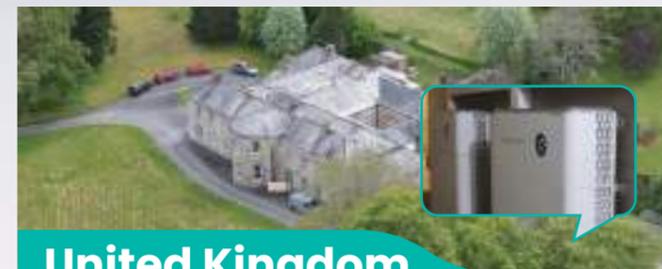
**Australia**  
70 kW AC output 336 kWh ESS capacity



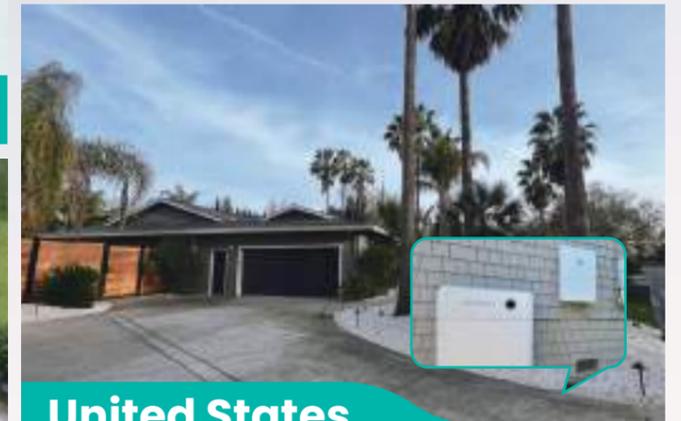
**Sweden**  
6 kW AC output 8 kWh ESS capacity



**Germany**  
8 kW AC output 16 kWh ESS capacity



**United Kingdom**  
40 kW AC output 32 kWh ESS capacity



**United States**  
11.4 kW AC output 13 kWh ESS capacity



**France**  
12 kW AC output 24 kWh ESS capacity



**South Africa**  
25 kW AC output 24 kWh ESS capacity



**Spain**  
16 kW AC output 24 kWh ESS capacity



**Netherland**  
75 kW AC output 120 kWh ESS capacity



**Namibia**  
300 kW AC output 960 kWh ESS capacity