



Home Energy Solution

Let the world enjoy green energy

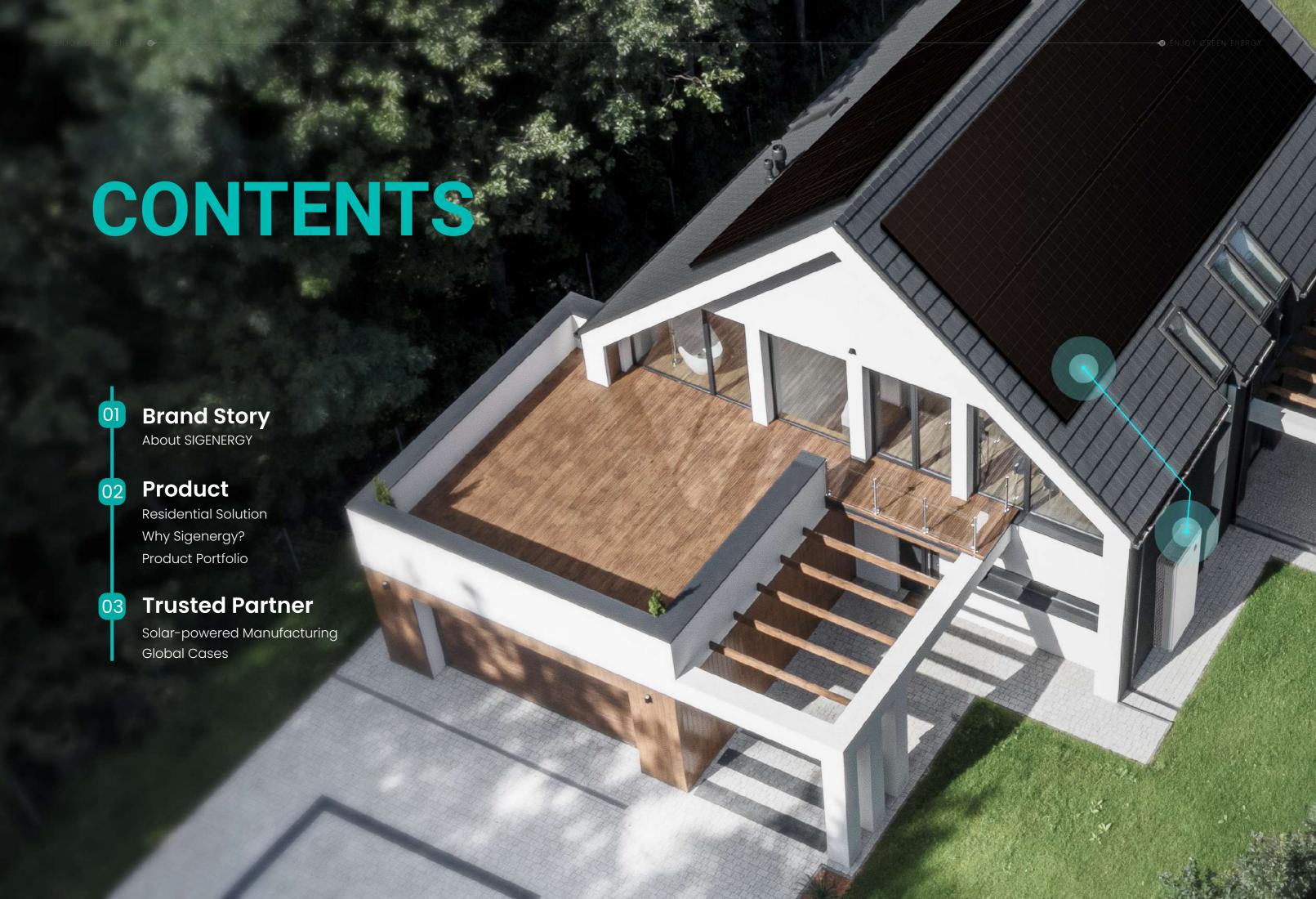




Sigenergy focuses on developing cutting-edge home and business

Sigenergy Australia Pty. Ltd.

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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.

Safe Intelligent Green Efficient New



Sigenergy Home Energy Solutions



5-in-One SigenStor



SigenStor EC

For solar + Energy storage system



SigenStor EVDC

Bi-directional EV charger



SigenStor BAT

Modular BESS

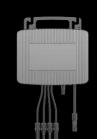
Energy Gateway



Sigen Gateway

Powerful home energy hub

Micro Inverter



SigenMicro Inverter

Ideal for rooftop and balcony solar

Hybrid Inverter



Sigen Hybrid Inverter

Efficient & elegant



SigenStor BC

Connect Sigen Battery to Sigen Hybrid Inverter



SigenStor BAT Modular BESS

EV AC Charger



EVAC Charger

Power drives with smart energy

App & Cloud



Sigen Cloud

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



mySigen App

Intelligent energy mgmt.
within touches

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

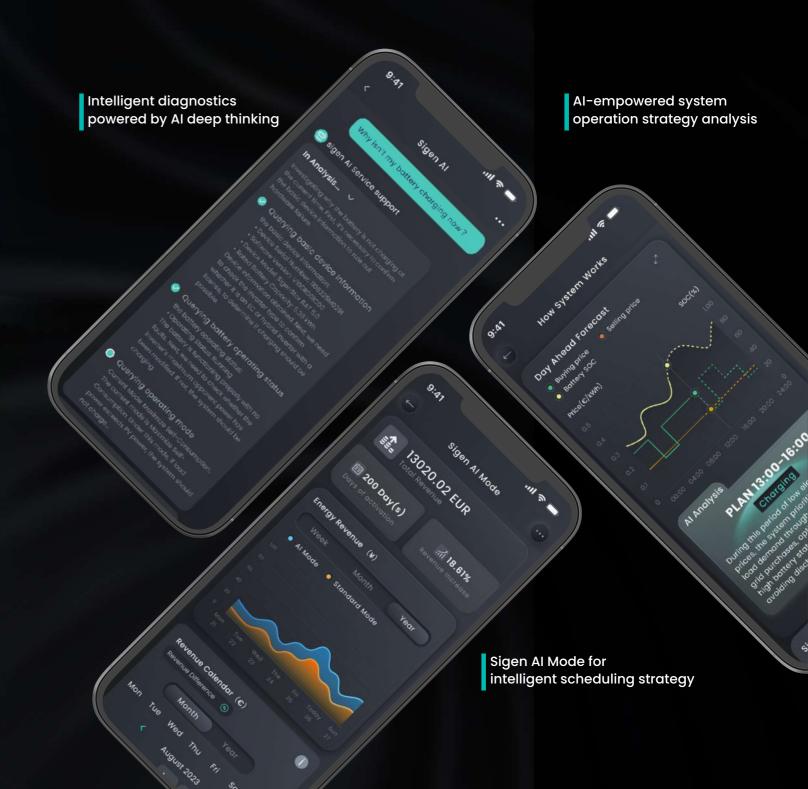
Load-level See the power source behind every watt



Why Sigenergy? -

02 Let Al Power Your Energy Freedom

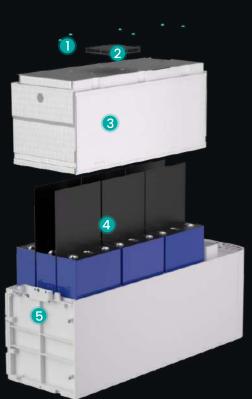
mySigen App integrates Al deeply with Sigen Al Mode, Al-driven insights, and a GPT-40 - powered smart assistant, using advanced AI to boost system efficiency, convenience, and performance.



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.

3 Layers **Battery Safety Protection**



- Cell-level temperature monitoring
- Internal fire extinguishing kit
- High-temp. resistance insulated pads
- Aerogel insulated pads
- Decompression valve

Real-time battery monitoring mySigen APP

04 Goodbye to Power Outage

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

Load-side disruption



V2G

Why Sigenergy?

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 Sigenergy?

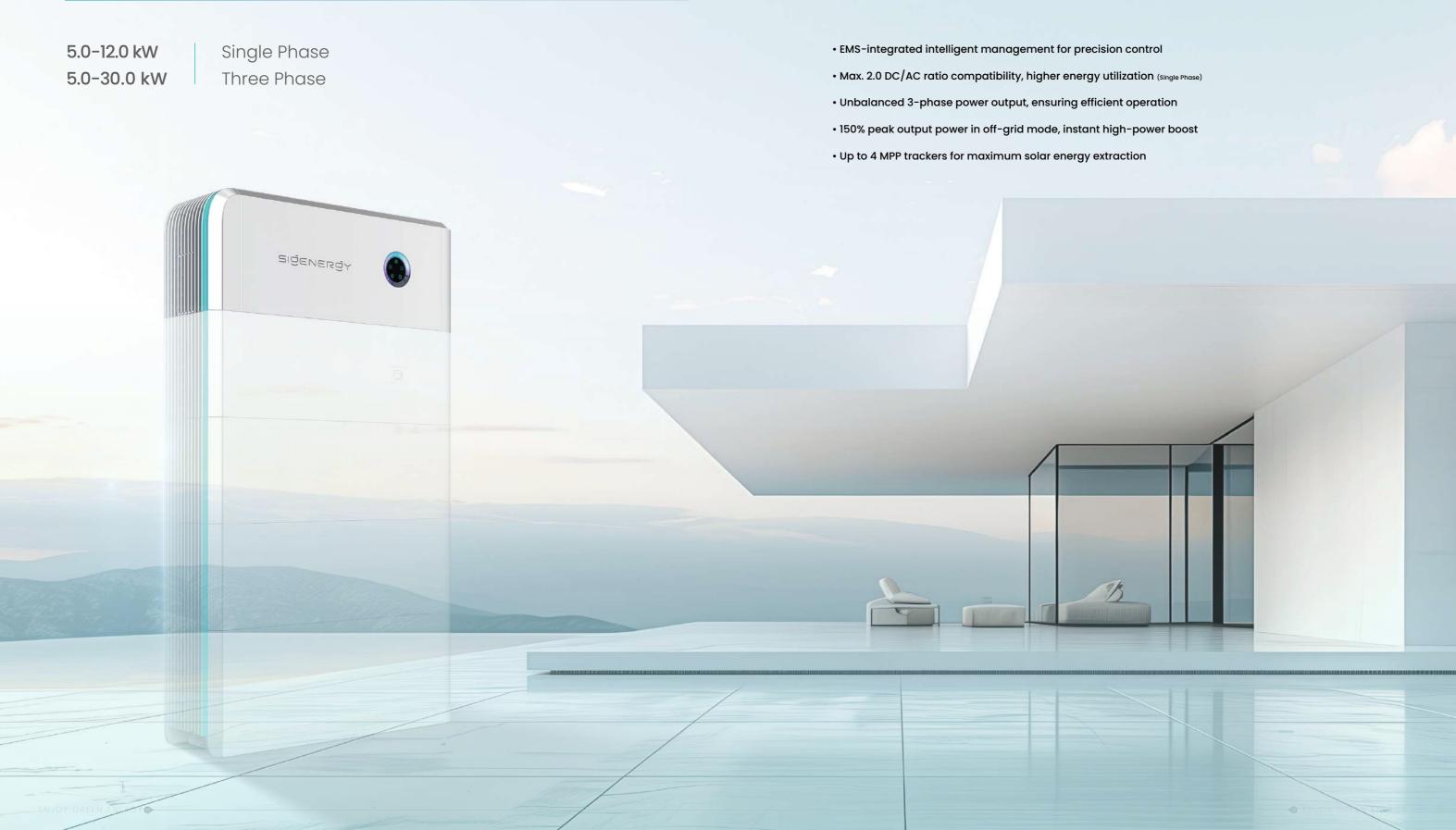
06 Pioneering Future-proof V2X

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



*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, places rafer to future appearance mode on the official website.

Sigen Energy Controller



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
DC Input (from PV)						
Max. PV power	10000	12000	16000	20000	24000	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	2	3	4	4	
Number of PV strings per MPPT		,	1			
Max. input current per MPPT			16			Α
Max. short-circuit current per MPPT			20			A
AC Output (on-grid)						
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	Α
Max. output current	21.7	30.0	40.0	43.4	54.6	Α
Nominal output voltage		30 / 240		220 / 230	00	
Nominal grid frequency		50 / 2 .0	50 / 60	220 / 200		Hz
Power factor	.	0.8	leading ~ 0.8 lag	aina		
Total current harmonic distortion			THDi < 2%	99		
Efficiency						
Max. efficiency	98.0%	98.0%	97.6%	97.6%	97.6%	
European efficiency	97.4%	97.4%	97.0%	97.0%	97.0%	
AC Output (backup)	67.170	37.170	07.070	07.070	07.070	
Nominal output power	5000	6000	8000	10000	12000	W
Max. output apparent power	5500	6600	8800	11000	13200	W
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		30 / 240		220 / 230	00	V
Nominal output frequency	220 / 20	30 / 2 10	50 / 60	220 / 200		Hz
Power factor		0.8	leading ~ 0.8 lag	aina		
Total voltage harmonic distortion			THDv < 2%	99		
Disruption time of backup switch 1			0			ms
Battery Connection						
Battery module models		Sic	genStor BAT 5.0 /	8.0		
Number of modules per controller			1~6			pcs
Battery module voltage range			300 ~ 600			V
Protection						
Safety protection feature	DC reverse Arc fault cir	cuit interrupter ?	² , AC overcurrent	onitoring, Residuc /overvoltage/sho Anti-islanding pr	ort-circuit prote	toring, ection.
General Data						
Dimensions (W / H / D)	700 / 30	00 / 245		700 / 300 / 260		mm
Weight	1	8		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 c	onvection		Smart air cooling	9	
System ingress protection rating			IP66			
Communication	WLAN	/ Fast Ethernet	/ RS485 / Sigen C	commMod (4G/30	G/2G)	
Standard Compliance						
Standard ³	IEC/EN 62109-1,	, IEC/EN 62109-2,	IEC/EN 62477, IEC	C/EN 61000-6-1, IEG	C/EN 61000-6-2	2, AS 4777

^{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 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	Unit
DC Input (from PV)	<u>'</u>				<u>'</u>		
Max. PV power	8000	16000	24000	32000	40000	48000	W
Max. DC input voltage				00			V
Nominal DC input voltage				00			V
Start-up voltage				30			V
MPPT voltage range				- 1000			V
Number of MPP. trackers	2	3	3	4	4	4	-
Number of PV strings per MPPT				1			
Max. input current per MPPT			1	16			Α
Max. short-circuit current per MPPT				20			A
AC Output (on-grid)							
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	Α
Max. output current	7.2	14.4	21.7	33.4	41.8	43.4	A
Nominal output voltage				/ 400			V
Nominal grid frequency				/ 60			Hz
Power factor			0.8 leadina	~ 0.8 lagging			-
otal current harmonic distortion				i < 2%			
Efficiency							
Max. efficiency	98.1%	98.3%	98.3%	98.3%	98.3%	98.4%	-
uropean efficiency	96.1%	97.5%	97.9%	97.9%	98.0%	98.0%	
AC Output (backup)							
Iominal output power	5000	10000	15000	20000	25000	30000	V
Max. output apparent power	5500	11000	16500	22000	27500	33000	
Peak output power (10 seconds)	7500	15000	22500	30000	30000	36000	- V
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	117	22.0		/ 400	40.0	04.7	
Nominal output frequency				/ 60			H
Power factor				~ 0.8 lagging			112
Total voltage harmonic distortion				/ < 2%			-
Disruption time of backup switch 1	-			0			m
Battery Connection							
Battery module models			SigenStor F	BAT 5.0 / 8.0			
Number of modules per controller				~ 6			рс
Battery module voltage range			600	~ 900		-	V
Protection							
	DC reve	erse polarity pr	otection, Insul	ation monitor	ing, Residual c	urrent monito	rina.
Safety protection feature		t circuit interru	ipter ² , AC ove	ercurrent/over	voltage/short- islanding prote	circuit protec	
General Data							
Dimensions (W / H / D)			700 / 3	00 / 260			mr
Veight	36	36	36	36	36	38	ko
Storage temperature range	·		-40	~ 70			°C
Operating temperature range			-30	~ 60			°C
Relative humidity range			0% ~	100%			
Max. operating altitude				000			m
Cooling			Smart a	ir cooling			
System ingress protection rating				66			
Communication	W	LAN / Fast Ethe	ernet / RS485 /	Sigen Comm	nMod (4G/3G/2	!G)	
Standard Compliance				-			
Standard 3		,	62109-2, IEC/EN		,		

^{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.

ENJOY GREEN ENERGY

This is an optional feature only supported in certain models, please contact Sigenergy for more information.

^{3.} For all standards refer to the certificates category on the Sigenergy website.

^{2.} This is an optional feature only supported in certain models, please contact Sigenergy for more information.

^{3.} For all standards refer to the certificates category on the Sigenergy 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 EVD0	C ¹	12	25	Units			
DC Charging	9						
Max. charging po	wer of charging port	12.5	25	kW			
0 01	power of charging por	t 12.5	25	kW			
Operation voltag	e range	150 ~	1000	V			
Max. operation cu	urrent	40	80	А			
Charging interfac	ce	CC	:S2				
Protection							
Short-circuit prot	ection	Supp	orted				
Over / Under volt		Supp					
Overload protect		Supp					
Over temperature	e protection	Supp					
Reverse polarity p		Supp					
Welded contacto	or check	Supp	orted				
General Dat	a						
Dimensions (W /	H / D)	700 / 27	70 / 260	mm			
Weight ²		37 (5m cable) / 39 (7.5m cable) / 41 (10m cable)					
Storage tempera	iture range	-40	~ 70	°C			
Operating tempe	erature range	-30	~ 60	°C			
Relative humidity	range	5% ~	95%				
Max. operating al	ltitude	4000					
Cooling		Smart air	r cooling				
System ingress p		IP6	66				
Integrated charg	ing cable length ³	5 / 7.	5 / 10	m			
Function							
Authentication		RFID card / App / I	No authentication				
	Scheduled Charging	The system supports settin	g the charging start times				
Smart Charging	PV Surplus Charging	The system uses PV Surplus to char It also supports Battery Boost Charging of Charging. Moreover, it has the func	with cut - off SOC setting, as well as Grid				
	Fast Charging	The system draws power from the grid charging speed and also supports	and PV simultaneously for the fastest additional Battery Boost Charging.				
Application		Bi-directional V2X operation	⁴ , Smart load management				
User interfaces		LED indicate	or, App, RFID				
Remote function		OTA, Remote	diagnostics				
OCPP protocol		OCPP 1.	6J ED 2				
Standard Co	ompliance						
Standard ⁵	•	EN IEC 61851-1, EN 61851-23, EN I	EC 61851-21-2, ETSI EN 303 645				
		·					

^{3.} 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 Sigenergy 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
Performance Specification			
Battery type	LiFe	ePO4	
Cell capacity	2	280	Ah
Cycle life 1	10	000	· · · · · · · · · · · · · · · · · · ·
Total energy capacity	5.38	8.06	kWh
Usable energy capacity ²	5.2	7.8	kWh
Depth of discharge ³	10	00%	
Max. charge / discharge power	2500	4000	W
Max. charge / discharge current	7.5	12.0	А
Peak charge / discharge power (10 seconds)	3750	6000	W
General Data			
Weight	55	70	kg
Dimensions (W / H / D)	767 / 2	270 / 260	mm
Storage temperature range	-25	5 ~ 60	°C
Operating temperature range	-20) ~ 55	°C
Relative humidity range	5%	~ 95%	
Max. operating altitude	4	000	m
Cooling	Natural (convection	
System ingress protection rating	IF	P66	
Installation method	Floor standing	/ Wall-mounted	
Number of modules per controller	1	~ 6	pcs
Compatible inverters	SigenSto Sigen Hybrid	or EC series SP2/TP2 series ⁴	
Standard Compliance			
Standard	IEC/EN 60730-1, UN 38.3, IEC	/EN 62619, IEC/EN 63056, IEC/EN 6204	0
	Sigen	Stor BC	
Operating voltage range (Single Phase)	300	~ 600	V
Operating voltage range (Three Phase)	600	~ 900	V
Weight		8	kg
Dimensions (W / H / D)	765 / 109 / 260 (with	out decorative cover)	mm
Compatible battery system	SigenSto	r BAT series	
Compatible inverter	Sigen Hybrid	SP2/TP2 series	·
Communication	C	CAN	



- This is provided by the battery cell manufacturer. Based on cell test condition of $25\pm2^{\circ}$ C, 0.5C charge and discharge rate and SOH=60%.
- $2. \hspace{0.5cm} \textit{Test conditions: } 100\% \hspace{0.1cm} \textit{depth of discharge, } 0.2C \hspace{0.1cm} \textit{rate charge \& discharge averagely at } 25^{\circ}C, \hspace{0.1cm} \textit{at the beginning of life.} \\$
- 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.
- For all standards refer to the certificates category on the Sigenergy website.



Harmoniously Complementing Your Home

Sigen Battery Controller

Sigen Battery
(SigenStor BAT)

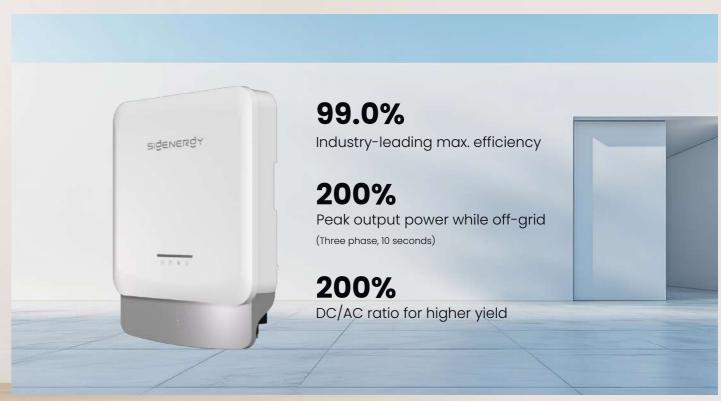












Sigen Hybrid Inverter 3.0-6.0 kW Single Phase Australia

Sigen Hybrid	3.0 SP2	5.0 SP2	6.0 SP2	Units
DC Input (from PV)				
Max. PV power	6000	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		А
Max. short-circuit current per MPPT		22		А
Battery Connection				
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
AC Output (on-grid)				
Nominal output power	3000	3000 4999		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	А
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%		
AC Output (backup)				
Peak output power (10 seconds)	4500	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 < 3%		
Disruption time of backup switch ¹		0		ms
Efficiency				
Max. efficiency		98.6%		
European efficiency	97.5%	98.3%	98.3%	
Protection				

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

General Data		
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

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
DC Input (from PV)		1			<u> </u>	
Max. PV power	10000	12000	16000	20000	24000	W
Max. DC input voltage			1100			V
Nominal DC input voltage			600			V
Start-up voltage			180			V
MPPT voltage range			160 ~ 1000			
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	А
Battery Connection						
Battery controller models			SigenStor BC			
Battery module models		S	igenStor BAT seri	es		,
Number of modules per controller			1~6			pcs
Battery module voltage range			600 ~ 900			V
AC Output (on-grid)						
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	Α
Max. output current	7.2	10.0	13.4	14.4	20.1	A
Nominal output voltage		220/380, 2	230/400, 240/415	(3W/N+PE)		V
Nominal grid frequency			50 / 60			Hz
Power factor		0.8	leading ~ 0.8 lag	ging		
Total current harmonic distortion			THDi < 3%			
AC Output (backup)						
Peak output power (10 seconds)	10000	12000	16000	20000	24000	W
Nominal output voltage		220/380, 2	230/400, 240/415	(3W/N+PE)		
Nominal output frequency			50 / 60			Hz
Power factor		0.8	leading ~ 0.8 lag	ging		
Total voltage harmonic distortion			THDv < 3%			
Disruption time of backup switch ¹			0			ms
Efficiency						
Max. efficiency	98.9%	99.0%	99.0%	99.0%	99.0%	
European efficiency	98.1%	98.5%	98.5%	98.5%	98.6%	
Protection						

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

General Data		
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.} 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.

^{2.} This document reflects current technology and is subject to change without notice. Refer to the Sigenergy website for the latest information.



^{1.} 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.

^{2.} This document reflects current technology and is subject to change without notice. Refer to the Sigenergy website for the latest information.

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 350ms anti-backflow protection
- PV / ESS / grid / generator / V2X, multi-source seamless switching
- Whole-house backup & smart prioritized backup supported



Sigen Energy Gateway for Australia

Sigen Gateway	Home SP AU	Home TP AU	Units	
Grid Connection				
Grid connection type	Single phase	Three phase		
Nominal AC input / output voltage	220 / 230 / 240	380 / 400	V	
Nominal AC input / output current	54.6	45.6	Α	
Nominal AC input / output power	12	30	kW	
Nominal AC frequency	50 /	60	Hz	
Disruption time of backup switch ¹	C)	ms	
AC Output to Backup Port				
Nominal AC output voltage	220 / 230 / 240	380 / 400	V	
Nominal AC output current	54.6	45.6	Α	
Nominal AC output power	12	30	kW	
Nominal AC frequency	50 / 60			
Overvoltage category	П	I		
AC Output to Non-Backup	Port			
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	Hz	
Inverter Connection				
Nominal AC voltage	220 / 230 / 240	380 / 400	V	
Nominal AC input current	54.6 (INVI), 32 (INV2) ²	45.6 (INV1), 32 (INV2) ³	A	
Smart Port Connection				
Generator output voltage	220 / 230 / 240	380 / 400	V	
Nominal input / output current	54.6	45.6	А	
Nominal AC input / output power	12	30	kW	
Generator 2-wire start	Suppo	orted		
General Data			·	
Dimensions (W / H / D)	450 / 570 / 197 (witho	ut decorative cover)	mm	
Weight	22.5 (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	40	00	m	
Cooling	Natural co	onvection		
Ingress protection rating	IP5	54		
Communication	Fast Ethernet , RS	485, dry contact		
Installation method	Wall mounted, rea	r wiring supported		

^{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 backup loads.

^{2.} For Sigenergy 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 Sigenergy inverters cannot exceed 12 kW.

^{3.} For Sigenergy 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 Sigenergy inverters cannot exceed 30 kW.

SigenMicro Inverter

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

- Innovative DAB Topology, highest efficiency in the industry*
- The world's first WiFi Mesh, more reliable and scalable
- The world's first EMS inside, free from network gateway
- Al layout recognition, 5 minutes fast commissioning



SigenMicro Inverter

Preliminary

SigenMicro		400			500			800			1000		Unit
DC Input													
Commonly used module power	3:	20 ~ 540)+	40	00 ~ 670)+	(320	~ 540+	-) x 2	(400) ~ 670+	-) x 2	W
Start-up voltage						2	.0			-			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		А
Max. input short-circuit current		25 x 1			25 x 1		,	25 x 2			25 x 2		А
AC Output													
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	А
Nominal output voltage	220	230	240	220	230	240	220	230	240	220	230	240	V
Nominal output voltage range ¹						184 ~	275						V
Nominal grid frequency						50	60						Hz
Grid frequency range ¹						15 ~ 55	/ 57 ~ 6	3					Hz
Total current harmonic distortion				1	rhDi < 3	% (at n	ominal	power)				
Power factor					0.8 le	ading	~ 0.8 lag	gging					
Max. units per branch ² (2.5 mm ²)	8	9	9	7	7	7	4	4	4	3	3	3	
Max. units per branch ² (4.0 mm ²)	13	13	14	10	11	11	6	6	7	5	5	5	
Efficiency													
Max. efficiency						97.	.5%						
European efficiency						96	.7%						
Monitoring & Protection													
Grid monitoring						Supp	orted						
Ground fault detection						Supp	orted						
PV module-level monitoring						Supp	orted						
Rapid shutdown						Supp	orted						
Surge protection						Supp	orted						
General Data													
Dimensions (W / H / D)				2	32 / 186	/ 35 (v	vithout	bracke	t)				mr
Weight		2.5			2.5			2.8			2.8		kç
Storage temperature range							~ 85						°C
Operating temperature range						-40	~ 65						°C
Relative humidity range							100%						
Max. operation altitude							00						m
Cooling							onvecti						
Topology			High	Freque	ency Tro			alvanic	ally Isol	ated			
Night power consumption							50						m\
Ingress protection rating							67						
						LE	D						
Display			WLAN										
Display Communication AC connection type					DI		AN ay conn						

^{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.

^{3.} SigenMicro is only available in specific regions. Please contact Sigenergy or local distributors for details.

Sigen EVAC Charger

- 100% Green power charging with Sigenergy 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	Unit			
AC Input & 0	Output							
Nominal chargin	ig 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 re	ange	6 ~ 32	6 ~ 16	6 ~ 32	Α			
Nominal AC freq			50 / 60		Hz			
Vehicle connecti	ion	Тур	e 2 connector / Type 2 socke	et with shutter				
AC input cable w	vidth range		2.5 ~ 6.0		mm			
Protection								
Integrated DC fa	rult detection 1		6		m/			
Integrated AC fa			30		m			
Flame retardant	rating		UL94-5VB					
Over / Under volt	tage protection		Supported					
Overload protec	tion		Supported					
Over temperatur	re protection		Supported					
PEN protection			Supported					
Randomized cho	0 0 /		Supported					
Ground fault pro	tection		Supported					
Surge protection	· · · · · · · · · · · · · · · · · · ·		Supported					
Grounding syste	m		TT, TN, IT					
User Interfa	ce & Communic	ation						
Protocol			RS485, Modbus RTU					
Communication			4G / WLAN / Fast Ethernet					
Authentication Display		RFID card / App / Auto-charge (no authentication) LED indicator / App						
Smart Charging	Smart Schedule PV Surplus Charging	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. 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		er from the grid and PV simu also supports additional Ba					
Metering		External me	eter with RS485 / Integrated	metering IC	_			
Dynamic load m	anagement 3		Supported					
Phase switching			Supported					
OCPP protocol			OCPP 1.6J ED 2					
General Dat	ta							
Dimensions (W /			234 / 384 / 126		mr			
Weight (case B /	case C)		4.5 / 6.4		kg			
Storage temper			-40 ~ 70		°C			
Operating tempe			-30 ~ 55		°C			
Relative humidity			5% ~ 95%					
Max. operating a	ıltitude		4000		m			
Cooling			Natural convection					
Ingress protection			IP65					
Installation meth			Wall-mounted					
Application envir			Outdoor / Indoor					
Standby self-cor			< 3.6		W			
Standard chargi			5		m			
Standard C	ompliance							
Standard ⁴			62995, EN IEC 61851-21-2, ETS 5.1, EN IEC 62311, EN50665, ETS					

Residual direct current protective device (RDC-PD) with integrated AC pulsating DC and 6mA DC detection, evalution 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 Sigenergy website.

Sigen Power Sensor

- WiFi halow remote communication functionality (with Sigen Sensor Sub1G Kit)
- Efficient and stable data transmission up to 200m (with Sigen Sensor Sub1G Kit)
- 1% high-accuracy power detection for precise control
- LCD real-time info display, easy to operate and check
- Integrate smoothly with Sigenergy devices, no need for setup
- Top class 100 A direct connection in power sensor with built-in CT
- 100 ms data refresh rate, instantaneous data feed



Sigen Power Sensor

Sigen Sensor 1	SP-DH	SP-CT120-DH	TP-DH	TP-CT120-DH	Units
Power Supply	_			'	
Grid connection type	1F	P2W	3P3W	//3P4W	
AC input voltage range	176	176 ~ 276		~ 480	Vac
Nominal AC frequency		50 /	60		Hz
Max. operating current	100	-	100	-	А
Measurement Accuracy					
Voltage accuracy		0.5	%		
Current accuracy		0.5	%		
Power accuracy		1%)		
Frequency accuracy		0.2	%		
Communication					
Interface		RS4	85		
Baud rate		960	00		bps
Protocol		Modbu	s RTU		
General Data					
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 ~	· 70		°C
Operating temperature range		-25 ~	60		°C
Relative humidity range		0% ~ 9	90%		
Ingress protection rating		IP2	0		
Installation method		DIN Rail :	35 mm		
CT Accessory					
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	А
Standard Compliance					
Standard		EN 61010-1:2010, EN	61010-2-030:2010		

	Sigen Sensor Sub1G 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 ²	≤ 200	m
Way to install	DIN35mm Rail mounting	

^{1.} For more models refer to the Sigenergy website.

^{2.} 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



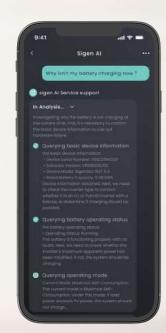
Sigen Communication Module

	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	titude 4000		
Controller / Inverter compatibility	Sigen Energy Controller series Sigen Hybrid Inverter series		

^{1.} To ensure stable data transmission, the mobile signal for 2G signal ≥ 4 bars, 3G/4G signal ≥ 3 bars.

Real-time Monitoring

Monitor real-time energy flow on home screen



Sigen Al Assistant

Intelligent diagnostics powered by Al deep thinking



Sigen Al Mode

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



Strategy Insight

Al-empowered system operation strategy analysis



Energy Sankey Diagram

Know where every watt comes from and where it goes



Battery Energy Source

Real-time visibility on battery power source composition

mySigen App

Intelligent energy management within touches

Smarter energy life empowered by mySigen App



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

		Interactive BI Dashboard
~	Business Operation	Installer Points Dashboard
		Points Redemption Mall
		Alert Management
(<u>(</u>)	Efficient Maintenance	Ownership Management
-0-		Fleet Management
		Status Management
		Real-time Energy Flow
\bigcirc	System Monitoring	System Energy Graphs
		Reporting and Download
		Device Management
		Real-time Device information
[1]	Device Monitoring	Parameter Check and Remote Configuration
<u>T</u>		Device Historical Curves
	After-sales Service	Warranty Lookup
		Member Management
P	Organisation Management	Company Information
		Hierarchy Management
		Al Smart Assistant
+	Value-Added Services	Third-party VPP Integration
		Open Northbound Integration
		Open Northbound Integration

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

Estimated Annual Generation

398,200 kWh

Community Contribution per Year

© 309t CO2 emission reduced

© 269 equivalent of trees planted











Powering Homes Worldwide









