



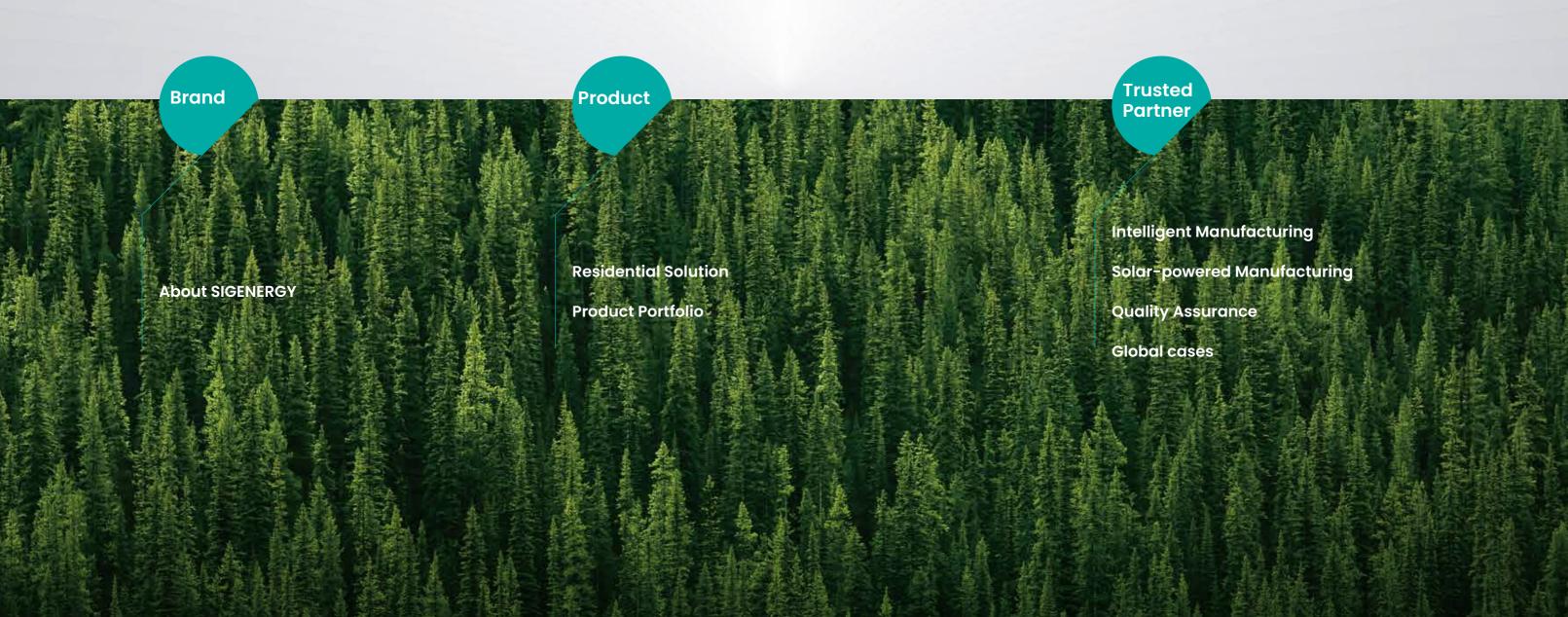


Sigenergy focuses on developing cutting-edge home and business energy solutions, with products ranging from energy storage systems to solar inverters and EV chargers. Our world-class R&D team of hundreds of top industry experts shares the vision of making the world greener via continuous innovation. With global sales and services, we aim to become our customers' most trusted partner on their journey to a more sustainable future.

www.sigenergy.com

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ABOUT SIGENERGY

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VISION Enjoy Green Energy

MISSION

Be a distributed energy pioneer.

Build intelligent energy solutions with superior safety,
ultra simplicity, and outstanding performance.

SIGEN

Safe Intelligent Green Efficient New

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

5 layers **280** Ah

load-side disruption

fast commissioning

IP66

25 kW

-click full system diagnosis



Versatile

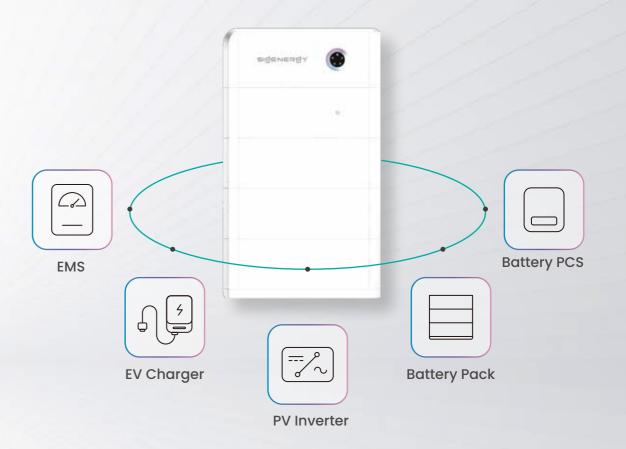
Robust

(\$ Intelligent





5-in-One, highly integrated design



Sigenergy is leading a new way of 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.





Sigen Energy Controller 3.0-12.0 kW Single Phase 1

3				9						
SigenStor EC	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	8.0 SP	10.0 SP	12.0 SP	Units
DC Input (from PV)	_	•								
Max. PV power	6000	7360	8000	9200	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			3	4	4	-
Number of PV strings per MPPT					1					
Max. input current per MPPT					16					А
Max. short-circuit current per MPPT					20					А
AC Output (on-grid)	·									
Nominal output power	3000	3680	4000	4600	5000	6000	8000	10000	12000	W
Max. output apparent power	3300	3680	4400	5000	5500	6600	8800	11000	12000	VA
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	36.4	45.5	54.6	А
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	40.0	50.0	54.6	А
Nominal output voltage			220 / 2	30 / 240				220 / 230	1	V
Nominal grid frequency					50 / 60					Hz
Power factor	,			0.8 lead	ding ~ 0.8	lagging				
Total current harmonic distortion					THDi < 2%					
Efficiency										
Max. efficiency	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	97.6%	97.6%	97.6%	
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	97.0%	97.0%	97.0%	
AC Output (backup)										
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	12000	15000	15000	W
Nominal output voltage				30 / 240				220 / 230		V
Nominal output frequency				,	50 / 60					Hz
Power factor				0.8 lead	ding ~ 0.8	lagging				
Total voltage harmonic distortion					THDv < 2%					
Disruption time of backup switch ²					0					ms
Battery Connection										
Battery module models				Sigens	Stor BAT 5.	.0 / 8.0				
Number of modules per controller				0.90	1~6	.0 / 0.0				pcs
Battery module voltage range					300 ~ 600					V
Protection										
Safety protection feature	DC Arc	fault circ	cuit interru	upter ³ , AC	Insulation Covercurr e protecti	ent/over	voltage/sl	hort-circu	it protecti	ing, ion.
General Data										
Dimensions (W / H / D)			700 / 30	00 / 245			70	0 / 300 / 2	260	mm
Weight			1	8				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			Natural c	onvection	1		Sm	art air cod	oling	
System ingress protection rating					IP66					
Communication		WLAN	Fast Ethe	ernet / RS4	485 / Sige	n Comm	Mod (4G/	3G/2G)		
Standard Compliance										
Standard ⁴	IE	C/EN 6210	9-1, IEC/EI	N 62109-2	, IEC/EN 62	2477, IEC/	EN 61000-	6-1, IEC/EN	V 61000-6	-2
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- 1. Sigen Energy Controller 8.0-12.0 kW Single Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.
- 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.
- 3. This is an optional feature only supported in certain models, please contact Sigenergy for more information.
- 4. For all standards refer to the certificates category on the Sigenergy website.

Sigen Energy Controller 5.0-30.0 kW Three Phase 1

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	30.0 TP	Unit
DC Input (from PV)		'	'			'	•		•		
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	48000	W
Max. DC input voltage					110	00					V
Nominal DC input voltage					60	00					V
Start-up voltage						30				·	V
MPPT voltage range						1000					V
Number of MPP. trackers		2			3				4		
Number of PV strings per MPPT						1					
Max. input current per MPPT					1	6					Α
Max. short-circuit current per MPPT					2	20				·	Α
AC Output (on-grid)										·	
Nominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	30000	W
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	33000	VA
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	45.5	A
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	50.0	A
Iominal output voltage		10.0	10.4	10.7		/ 400	20.4		71.0		
Nominal grid frequency						/ 60					Hz
ower factor				0.8		~ 0.8 lago	nina				112
otal current harmonic distortion				0.0		< 2%	31119				
Efficiency											
Max. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.4%	
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	98.0%	
AC Output (backup)	0 01170	0 0.070	071170	071070	071770	071070	071070	071070	00.070		
eak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	36000	W
Nominal output voltage	7000		12000	10000	-	/ 400	20000	- 00000	00000		
Nominal output frequency						/ 60					Hz
ower factor				N 8		~ 0.8 lagg	nina				112
otal voltage harmonic distortion				0.0		/ < 2%	31119				
Disruption time of backup switch ²						0					ms
· · · · · · · · · · · · · · · · · · ·						<u> </u>					1113
Battery Connection											
Battery module models				Sig		BAT 5.0 / 8	8.0				
lumber of modules per controller					1-						pcs
Battery module voltage range					600	~ 900					V
Protection											
Safety protection feature	D A	C reverse rc fault c	ircuit inte	errupter ³	³ , AC ove	ation mo rcurrent/ otection,	overvolt	age/sho	rt-circuit	monitorin protection	ng, on.
General Data											
Dimensions (W / H / D)					700 / 30	00 / 260					mm
Veight						86					kg
storage temperature range						~ 70					°C
Operating temperature range						~ 60					°C
Relative humidity range						95%					
Max. operating altitude						000					m
Cooling						ir cooling	1				
System ingress protection rating						66	,				
Communication		WLA	N / Fast F	thernet		Sigen Co	ommMo	d (4G/3G	5/2G)		
Standard Compliance		1	,		7	3		, -, -,	/		
Standard ⁴		IEC/EN	62100-1	IEC/ENI GO	2100-2 15	C/EN 610	00-6-1 15	C/ENI GIO	00-6-2		
		IEU/EIN	UZIUB-1,	ILU/EIN 02	105 Z, IE	C/ EIN OIU	00-0-1, IE	UID NID I	00-0-2		

- 1. Sigen Energy Controller 30.0 kW Three Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.
- 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.
- 3. This is an optional feature only supported in certain models, please contact Sigenergy for more information.
- 4. For all standards refer to the certificates category on the Sigenergy website.



Sigen Energy Controller 5.0-12.0 kW Three Phase Low Voltage 1

SigenStor EC	5.0 TPLV	6.0 TPLV	8.0 TPLV	10.0 TPLV	12.0 TPLV	Unit
DC Input (from PV)						'
Max. PV power	8000	9600	12800	16000	19200	W
Max. DC input voltage	-		600			V
Nominal DC input voltage			360			V
Start-up voltage			100			V
MPPT voltage range			50 ~ 550			V
Number of MPP. trackers	2	2	3	3	4	
Number of PV strings per MPPT			1			
Max. input current per MPPT			16			А
Max. short-circuit current per MPPT			20			A
AC Output (on-grid)						
Nominal output power	5000	6000	8000	10000	12000	W
Max. output apparent power	5500	6600	8800	11000	13200	VA
Nominal output current	13.2	15.8	21.0	26.2	31.5	A
Max. output current	14.5	17.4	23.1	28.9	34.7	A
Nominal output voltage	·		220 / 230			V
Nominal grid frequency			50 / 60			———— На
Power factor		0.8	leading ~ 0.8 lag	ging		
Total current harmonic distortion			THDi < 2%	0 0		
Efficiency						
Max. efficiency			98%			
European efficiency	97.3%	97.5%	97.7%	97.8%	97.8%	
Battery Connection						
Battery module models		Sig	genStor BAT 5.0 /	8.0		
Number of modules per controller		·	1~6			рс
Battery module voltage range			300 ~ 600			
Protection						
Safety protection feature	DC revers Arc fault c	ircuit interrupter	² , AC overcurrent	onitoring, Residuc :/overvoltage/sho Anti-islanding pr	ort-circuit protec	oring, etion,
General Data						
Dimensions (W / H / D)			700 / 300 / 260			mr
Weight			36			kç
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	9		
System ingress protection rating			IP66	-		
Communication	WLAI	N / Fast Ethernet	/ RS485 / Sigen C	commMod (4G/30	9/2G)	
Standard Compliance						
Standard ³	IEC/FN	62109-1, IEC/EN 63	2109-2, IEC/EN 610	000-6-1, IEC/EN 610	000-6-2	
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Sigen Energy Controller Three Phase Low Voltage is only available in specific regions. Please contact Sigenergy or local distributors for details.

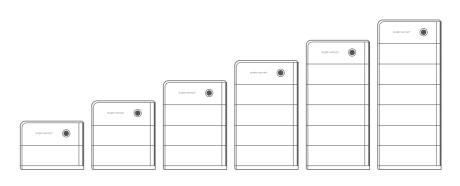
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For all standards refer to the certificates category on the Sigenergy website.



Sigen Battery 5.0 / 8.0 kWh

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
Battery modules voltage range (single phase system)	300	~ 600	V
Battery modules voltage range (three phase system)	600	~ 900	V
Max. charge / discharge power	2500	4000	W
Peak charge / discharge power (10 seconds)	3750	6000	W
General Data			
Weight	55	70	kg
Dimensions (W / H / D)	767 / 2	70 / 260	mm
Storage temperature range	-25	5 ~ 60	°C
Operating temperature range	-20) ~ 55	°C
Relative humidity range	5% -	~ 95%	
Max. operating altitude	40	000	m
Cooling	Natural c	convection	
System ingress protection rating	IF	266	
Installation method	Floor standing	/ Wall-mounted	
Standard Compliance			
Standard	IEC/EN 60730-1, UN 38.3, IEC	/EN 62619, IEC/EN 63056, IEC/EN 620	040



Number of battery modules ³	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)			8	50			mm
Total depth (with decorative covers)			2	60			mm

- 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%.
- Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.
- 3. 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

- V2X ready technology, future proof
- Max. 25 kW bi-directional charging
- 150V ~ 1000V charging, wide EV compatibility
- Charge EV with green solar power
- Remote control on mySigen App
- IP66 system protection, maintenance free

Sigen EV DC Charging Module 12 / 25 kW

SigenStor EVDC ¹	12	25	Units
DC Charging	·		'
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	А
Charging interface	CCS2		
Protection			
Short-circuit protection	Supported		
Over / Under voltage protection	Supported		
Overload protection	Supported		
Over temperature protection	Supported		
Reverse polarity protection	Supported		
Welded contactor check	Supported		
General Data			
Dimensions (W / H / D)	700 / 270 / 26	0	mm
Weight ²	37 (5m cable) / 39 (7.5m cable	e) / 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 cooli	ng	·
System ingress protection rating	IP66		
Integrated charging cable length ³	5 / 7.5 / 10		m
Function			
Authentication	RFID card / App / No aut	hentication	
Application	Bi-directional V2X operation ⁴ , Smo	art load management	
User interfaces	LED indicator, App	, RFID	
Remote function	OTA, Remote diagr	nostics	
Standard Compliance			
Standard ⁵	EN IEC 61851-1, EN 61851-23, EN IEC 618	351-21-2, ETSI EN 303 645	

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

The net weight includes the CCS2 cable-assembly also, but excludes the exteriors, wall-mounting fixtures and the related attachments. Integrated charging cable length refers to the length of the cable that extends from the Sigen EV DC Charging Module, not the length of

V2X functionality is limited by the EV's capabilities. Once the relevant standards are published and tested, V2X feature can be upgraded through the OTA. For the official support of vehicle models and support timelines, please refer to future announcement made on the

For all standards refer to the certificates category on the Sigenergy website



Sigen Hybrid Inverter

3.0 - 12.0 kW Single Phase

5.0 - 30.0 kW Three Phase

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

Sigen Hybrid Inverter 3.0-12.0 kW Single Phase 1

<u> </u>						1		1		
Sigen Hybrid	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	8.0 SP	10.0 SP	12.0 SP	Unit
DC Input										
Max. PV power	6000	7360	8000	9200	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			3	4	4	
Number of PV strings per MPPT					1					
Max. input current per MPPT					16					Α
Max. short-circuit current per MPPT					20					Α
AC Output (on-grid)										
Nominal output power	3000	3680	4000	4600	5000	6000	8000	10000	12000	W
Max. output apparent power	3300	3680	4400	5000	5500	6600	8800	11000	12000	VA
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	36.4	45.5	54.6	Α
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	40.0	50.0	54.6	Α
Nominal output voltage			220 / 23	30 / 240				220 / 230)	V
Nominal grid frequency					50 / 60					Hz
Power factor				0.8 lead	ding ~ 0.8	lagging				
Total current harmonic distortion					THDi < 2%					
Efficiency										
Max. efficiency	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	97.6%	97.6%	97.6%	
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	97.0%	97.0%	97.0%	
Additional Features										
Compatible battery module				Sigen	Stor BAT 5	.0 / 8.0				
Number of modules per controller					1~6					рс
Battery module voltage range					300 ~ 600)				V
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	12000	15000	15000	W
Nominal output voltage			220 / 23	30 / 240				220 / 230)	V
Protection										
Safety protection feature General Data	DC Arc	fault circ	cuit interru	ıpter ² , A0	Covercurr	ent/over\	/oltage/s	ual curren hort-circu protectior	it monitori iit protecti 1	ing,
Dimensions (W / H / D)			700 / 30	00 / 268			70	0 / 300 / 2	283	mn
Weight				8				36		kg
Storage temperature range				-	-40 ~ 70		I.			°C
Operating temperature range					-30 ~ 60					
Relative humidity range					0% ~ 95%					
Max. operating altitude					4000					m
Cooling			Natural c	onvection			Sm	art air cod	olina	
Ingress protection rating					IP66		0111		9	
Installation method				\\/	all-mount	ed				
Communication		WIAN	Fast Fthe		485 / Sige		Mod (4G)	(3G/2G)		
Standard Compliance		VVLAIN /	, ast Luit	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-oo, sige		viou (40)	00/20/		
Standard ³		C/EN 6010	0-1 150/5	J 60100 0	LIEC/ENI C	2477 150/1	ENI 61000	6-1 150/5	N 61000-6-	2
standara -	IE(C/ EN 0210	ı⊐−ı, IEC/Eİ	v 02109-2	, IEC/EN 02	24//, IEU/I	-טוטטוס אום	υ-ı, IEC/El	4 01000-0-	

- 1. Sigen Hybrid Inverter 8.0-12.0 kW Single Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.
- 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 Hybrid Inverter 5.0-30.0 kW Three Phase 1

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	30.0 TP	Units
DC Input											
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	48000	W
Max. DC input voltage					110	00					V
Nominal DC input voltage					60	00					V
Start-up voltage					18	30					V
MPPT voltage range					160 ~	1000					V
Number of MPP. trackers		2			3				4		
Number of PV strings per MPPT						1					
Max. input current per MPPT					1	6					А
Max. short-circuit current per MPPT					2	10					Α
AC Output (on-grid)											
Nominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	30000	W
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	33000	VA
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	45.5	Α
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	50.0	А
Nominal output voltage					380	/ 400					V
Nominal grid frequency					50	/ 60					Hz
Power factor				0.8	leading -	~ 0.8 lag	ging				
Total current harmonic distortion					THDi	< 2%					
Efficiency											
Max. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.4%	
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	98.0%	
Additional Features											
Compatible battery module				Się	genStor E	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	36000	W
Nominal output voltage					380	400					V
Protection											
Safety protection feature	D A	C revers	ircuit int	y protect errupter ² I DC/AC s	AC ove	rcurrent	overvolt	age/sho	rt-circuit	monitorin protectio	g, in.
General Data											
Dimensions (W / H / D)					700 / 30	00 / 283					mm
Weight					3	6					kg
Storage temperature range					-40	~ 70					°C
Operating temperature range					-30	~ 60					°C
Relative humidity range					0% ~	95%					
Max. operating altitude					40	000					m
Cooling					Smart ai	r cooling					
ngress protection rating					IP	66					
nstallation method					Wall-m	ounted					
Communication		WLA	N / Fast I	Ethernet ,	RS485 /	Sigen C	ommMo	d (4G/3G	6/2G)		
Standard Compliance											
Standard ³		IF C /F:	00100	150/500	100 0 /=	0/51:010	00.01:	0/51:000	00.0.0		
Standara ~		IEC/EN	021U9-1,	IEC/EN 62	(109-2, IE	C/FN 610	υυ-6-1, IŁ	:C/EN 610	100-6-2		

^{1.} Sigen Hybrid Inverter 30.0 kW Three Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.

^{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 PV Inverter

3.0 - 6.0 kW Single Phase

5.0 - 25.0 kW Three Phase



- Easy installation with side cabling
- Visible energy tracking on mySigen App
- WLAN, Ethernet & 4G communication
- DC/AC ratio up to 2 (single phase)
- Up to 4 MPP. trackers (three phase)
- IP66 protection rating

Sigen PV Inverter 3.0-6.0 kW Single Phase

Sigen PV Max	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units
DC Input	•	•					•
Max. PV power	6000	7360	8000	9200	10000	12000	W
Max. DC input voltage			60	00			V
Nominal DC input voltage			35	50			V
Start-up voltage			10	00			V
MPPT voltage range			50 ~	550			V
Number of MPP. trackers				2			
Number of PV strings per MPPT			1	1			
Max. input current per MPPT			1(6			А
Max. short-circuit current per MPPT			2	0			А
AC Output							
Nominal output power	3000	3680	4000	4600	5000	6000	W
Max. output apparent power	3300	3680	4400	5000	5500	6600	VA
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	A
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	А
Nominal output voltage			220 / 23	30 / 240			V
Nominal grid frequency			50 /	60			Hz
Power factor			0.8 leading -	~ 0.8 lagging			
Total current harmonic distortion			THDi	< 2%			
Efficiency							
Max. efficiency			98.	.0%			
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	
Protection							
Safety protection feature	DC reve Arc faul	t circuit interr	upter ¹ , AC ovei	rcurrent/oven	ng, Residual cu voltage/short-c slanding prote	circuit protec	ring, tion.
General Data							
Dimensions (W / H / D)			700 / 30	00 / 268			mm
Weight			18	8			kg
Storage temperature range			-40	~ 70			°C
Operating temperature range			-30	~ 60			°C
Relative humidity range			0% ~	95%			
Max. operating altitude			40	00			m
Cooling			Natural co	onvection			
Ingress protection rating			IP6	66			
Installation method			Wall-m	ounted			
Communication	W	LAN / Fast Ethe	ernet / RS485 /	Sigen Comm	Mod (4G/3G/20	G)	
Standard Compliance							
Standard ²	IEC/FN	62109-1. IEC/F	N 62109-2. IEC/	EN 62477. IEC/	EN 61000-6-1, IE	C/EN 61000-	6-2
	.20,211	,	2, .201	,		.,	

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	Unit
DC Input		<u>'</u>		'						
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W
Max. DC input voltage					1100					
Nominal DC input voltage	-				600					
Start-up voltage					180					
MPPT voltage range					160 ~ 1000)				
Number of MPP. trackers		2			3			4		
Number of PV strings per MPPT					1					
Max. input current per MPPT					16					A
Max. short-circuit current per MPPT					20					A
AC Output										
Nominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	W
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	VA
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	A
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	A
Nominal output voltage					380 / 400)				V
Nominal grid frequency					50 / 60					——— Нz
Power factor				0.8 lead	ding ~ 0.8	lagging				
Total current harmonic distortion					THDi < 2%					
Efficiency										
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%	
Protection										
Safety protection feature	DC Ar	c fault cir	cuit interr	upter ¹ , AC	overcurr	monitorir ent/overvo on, Anti-is	oltage/sh	ort-circui	monitorir t protectio	ng, on.
General Data										
Dimensions (W / H / D)				70	0 / 300 / 2	283				mr
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				Sm	art air cod	oling				
Ingress protection rating					IP66					
Installation method				W	all-mount	ed				
		WLAN								

IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2

Standard ²

^{1.} This is an optional feature only supported in certain models, please contact Sigenergy for more information.

^{2.} For all standards refer to the certificates category on the Sigenergy website.

^{1.} This is an optional feature only supported in certain models, please contact Sigenergy for more information.

^{2.} For all standards refer to the certificates category on the Sigenergy website.



- 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

Sigen Gateway	HomeMax SP 12K	HomeMax TP	Units
Grid Connection			'
Grid connection type	Single phase	Three phase	
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC current	100	76	А
Nominal AC power	22 / 23 / 24	50 / 52.6	kW
Nominal AC frequency	50 / 60		Hz
Disruption time of backup switch ¹	0		ms
AC Output to Backup Port			
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC current	100	76	А
Nominal AC power	22 / 23 / 24	50 / 52.6	kW
Nominal AC frequency	50 / 60		Hz
Overvoltage category	III		
Inverter Connection / EV Cho	arger Port (optional)		
Max. number of connection	3	2	
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC current	55 (INVI), 32 (INV2), 32 (INV3) ²	38	А
Compatible EV charger power	7	11 / 22	kW
Smart Port Connection			
Generator output voltage	220 / 230 / 240	380 / 400	V
Nominal current	63	76	А
Nominal AC power	13.8 / 14.5 / 15.1	50 / 52.6	kW
Generator 2-wire start	Supporte	ed	
General Data			
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%	6	
Max. operation altitude	4000		m
Cooling	Natural conve	ection	
Ingress protection rating	IP54		
Communication	Fast Ethernet, RS485	, dry contact	
Installation method	Wall moun	ted	

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/INV3 port.



Sigen Communication Module

	Sigen CommMod ¹	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 x 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 Sigen PV Inverter series	

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





Sigen Power Sensor

- 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
- Support export/import limitations and ready for AI evolving
- 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	16	1P2W		3P3W/3P4W			
AC input voltage range	176	176 ~ 276		173 ~ 480			
Nominal AC frequency		50 / 60					
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	RS485						
Baud rate	9600 bps						
Protocol	Modbus RTU						
General Data							
Dimensions (W / H / D)	36 / 100 / 63	18 / 118 / 64	72 / 100 / 66	72 / 94.5 / 65	mm		
Weight	0.20	0.07	0.32	0.20	kg		
Storage temperature range		-40 ~ 70					
Operating temperature range	-25 ~ 60 °C						
Relative humidity range	0% ~ 90%						
Ingress protection rating	IP20						
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						

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



- Green power charging with Sigenergy 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 protection rating, worry-free outdoor usage with easy O&M

Sigen EV AC Charger 7 / 11 / 22 kW

Sigen EVAC	7	11	22	Units			
AC Input & Output							
Nominal charging power	7	11	22	kW			
Nominal output voltage	1P/N/PE, 220 ~ 240	3P/N/PE, 220 ~ 240 / 380 ~ 415	3P/N/PE, 220 ~ 240 / 380 ~ 415	V			
Output current range	6 ~ 32	6 ~ 16	6 ~ 32	А			
Nominal AC frequency		50 / 60					
Vehicle connection	Τγ	Type 2 connector / Type 2 socket with shutter					
AC input cable width range		2.5 ~ 6.0					
Protection							
Integrated DC fault detection ¹		6					
Integrated AC fault detection ¹		30					
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						
User Interface & Communica	ation						
Protocol		RS485, Modbus RTU					
Communication	4G / WLAN / Fast Ethernet						
Authentication	RFID card	RFID card / App / Auto-charge (no authentication)					
Display		LED indicator / App					
Charging mode ²	100% PV cha	100% PV charging / Solar boost charging / Fast charging					
Metering	External r	meter with RS485 / Integrated r	metering IC				
Dynamic load management ³		Supported					
Phase switching		Supported					
OCPP protocol		OCPP 1.6J ED 2					
General Data							
Dimensions (W / H / D)		234 / 384 / 126		mm			
Weight (case B / case C)		4.5 / 6.4					
Storage temperature range		-40 ~ 70					
Operating temperature range		-30 ~ 55					
Relative humidity range		5% ~ 95%					
Max. operating altitude		4000					
Cooling		Natural convection					
Ingress protection rating		IP65					
Installation method		Wall-mounted					
Application environment		Outdoor / Indoor					
Standby self-consumption		< 3.6					
Standard charging cable length		5					
Standard Compliance				m			
Standard ⁴		EC 62955, EN IEC 61851-21-2, ETS 2.5.1, EN IEC 62311, EN50665, ETS					

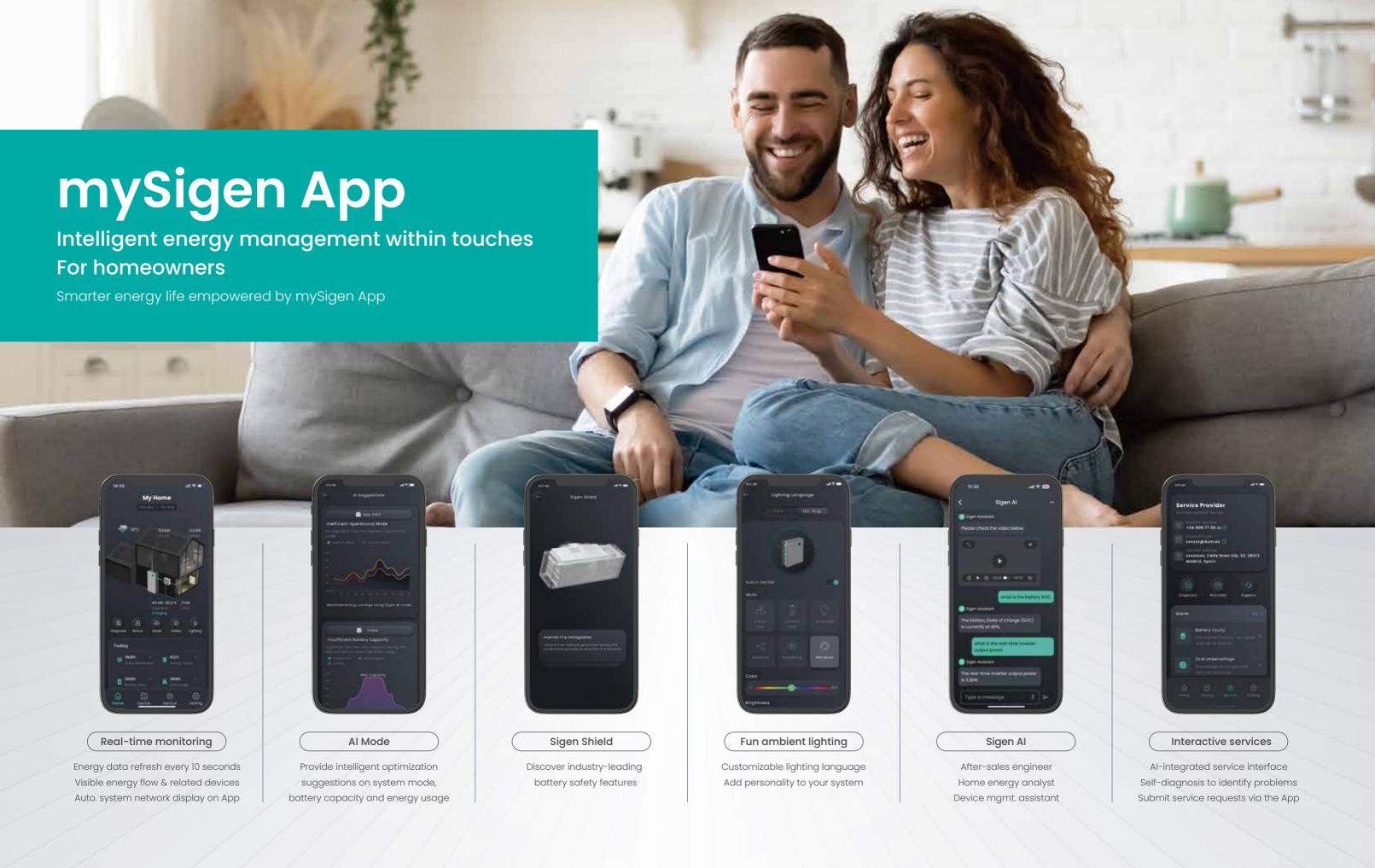
^{*} Only works with Sigenergy home energy solution or additional Sigen Power Sensor

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.

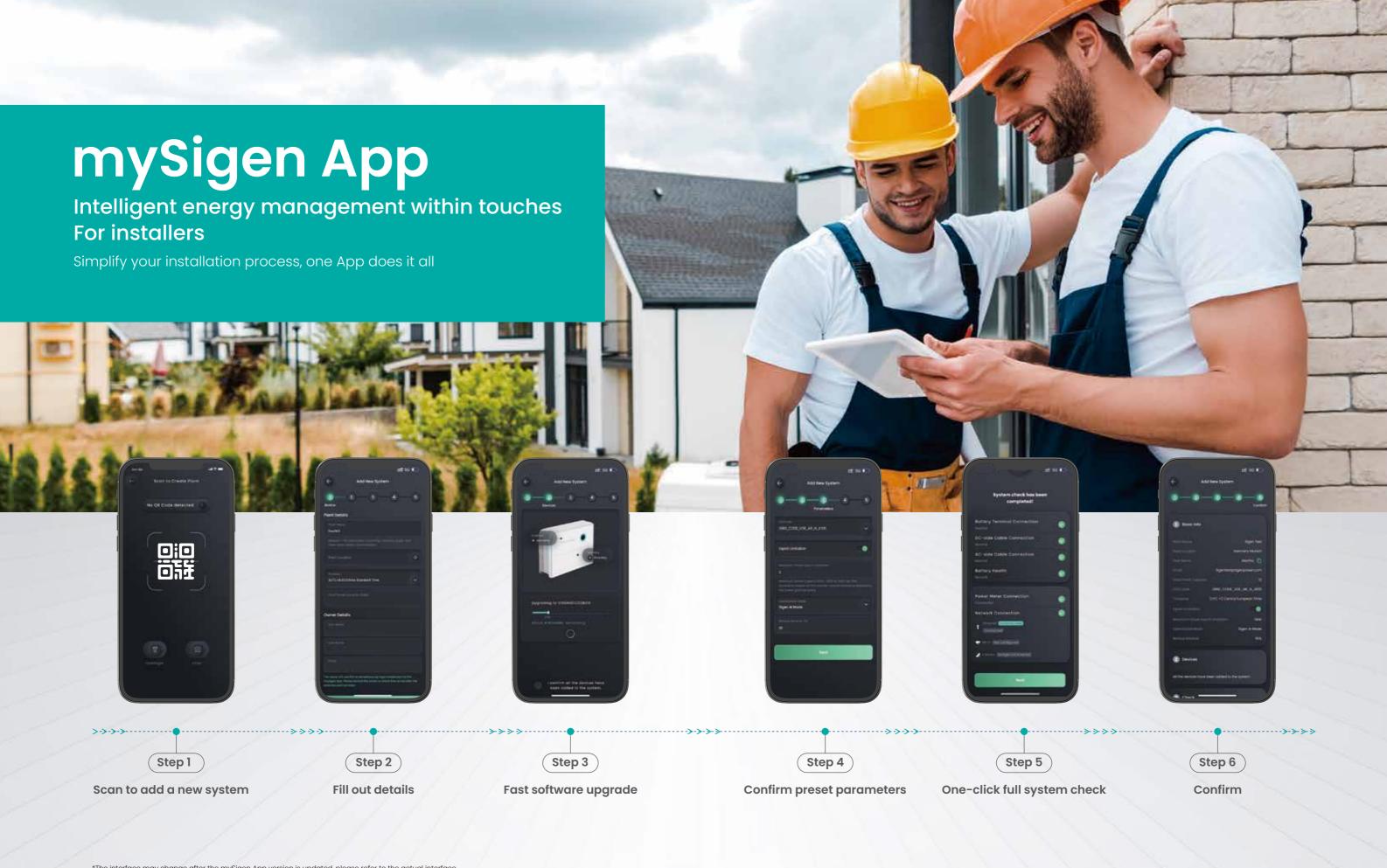
This function needs to be used with SigenStor.

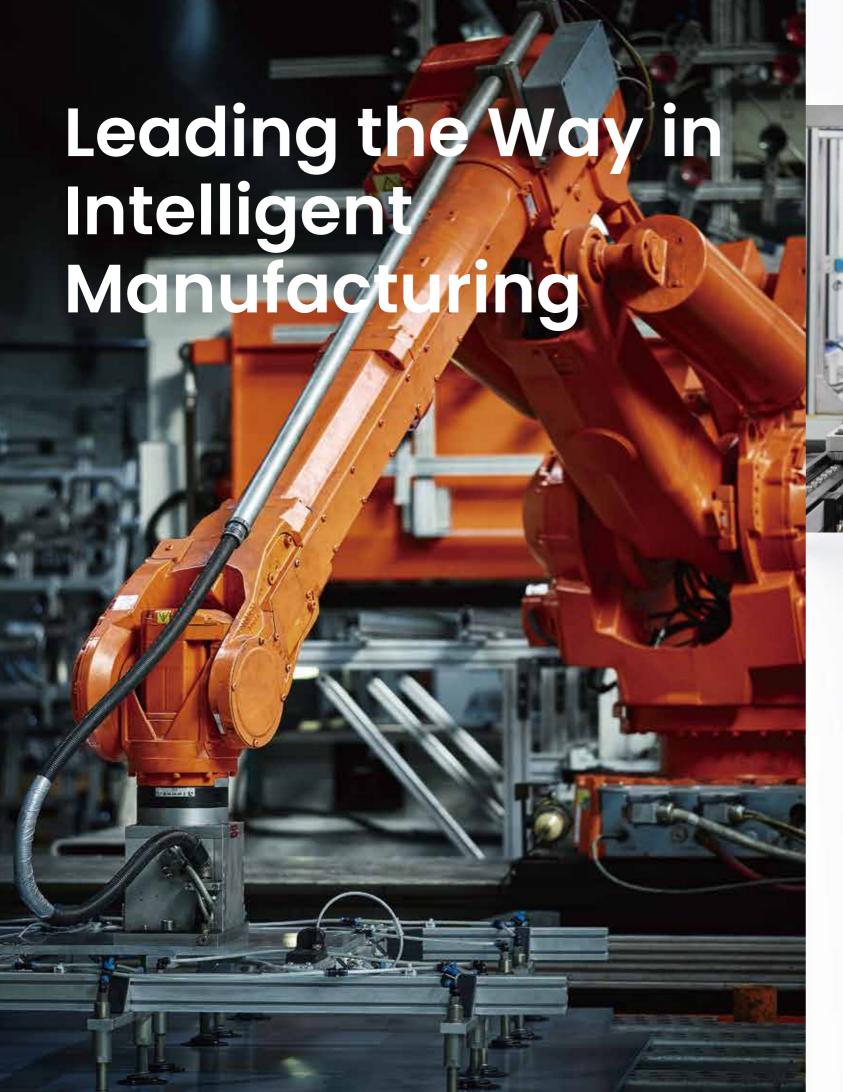
^{3.} This function needs to be used with Sigen Power Sensor.

^{4.} For all standards refer to the certificates category on the Sigenergy website.



^{*}The interface may change after the mySigen App version is updated, please refer to the actual interface.







6 GWhBattery 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.



By adopting Sigenergy products and embracing solar energy, our factory has realized green manufacturing. With a 3,000 sqm PV plant on the rooftop, We have significantly reduced our reliance on fossil fuels and effectively cut carbon footprint during the manufacturing process. Our solar-powered production also translates into better efficiency and higher cost savings for our business. We are proud to be making a positive impact on the environment, and are committed to continuing to lead our sustainability practices to help build a better world for future generations.

Plant Size

☑ 3,000 m²



(b) 240 kWac

₹ 432 kWh

Estimated Annual Generation

398,200 kWh

Community Contribution per Year

@ 309t CO₂ emission reduced

269 equivalent of trees planted



Where Quality Meets Perfection

At Sigenergy, our unwavering commitment to putting the customer first is at the core of everything we do. We firmly believe that delivering top-quality products is paramount to ensuring customer satisfaction and building long-term relationships. With a relentless pursuit of excellence, we constantly strive to develop innovative products that meet and exceed customer expectations. Our strict implementation of rigorous quality control guarantees that every product leaving our factories is of the highest standard. Moreover, we never settle for complacency; Instead, we embrace a culture of continuous improvement to constantly enhance our products and surpass industry standards.



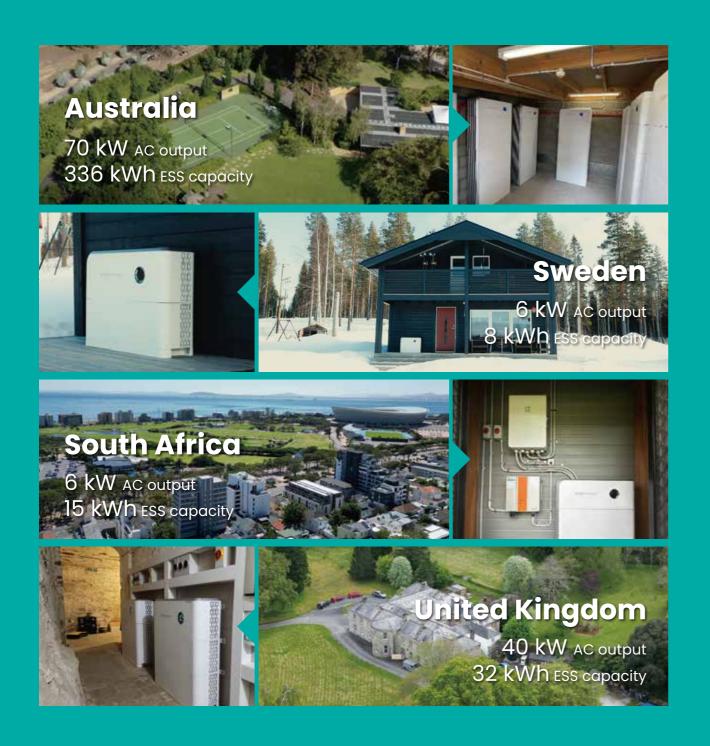
Manufacturing Execution System (MES)

Quality and efficiency is consistently guaranteed by our MES system, which monitors, tracks, documents, and controls the entire manufacturing process from raw materials to finished products, as well as full product lifecycle management.



Powering Homes Worldwide

From Sweden's Frost to South Africa's Sun



From the coldest -20°C to the hottest 48°C, from the coastline to the snowfield, from the century-old castle to the modern villa

SigenStor operates perfectly in a wide range of scenarios, from the frigid temperatures of northern regions like Sweden, where it can drop to -20°C, to the warmer climates of southern regions like Myanmar. Whether installed indoors or outdoors, SigenStor performs reliably in any environment. Whether you want to cut electricity bills, reduce reliance on diesel generators, or whole-home backup during power outages, 5-in-One SigenStor is here to meet your needs.

