



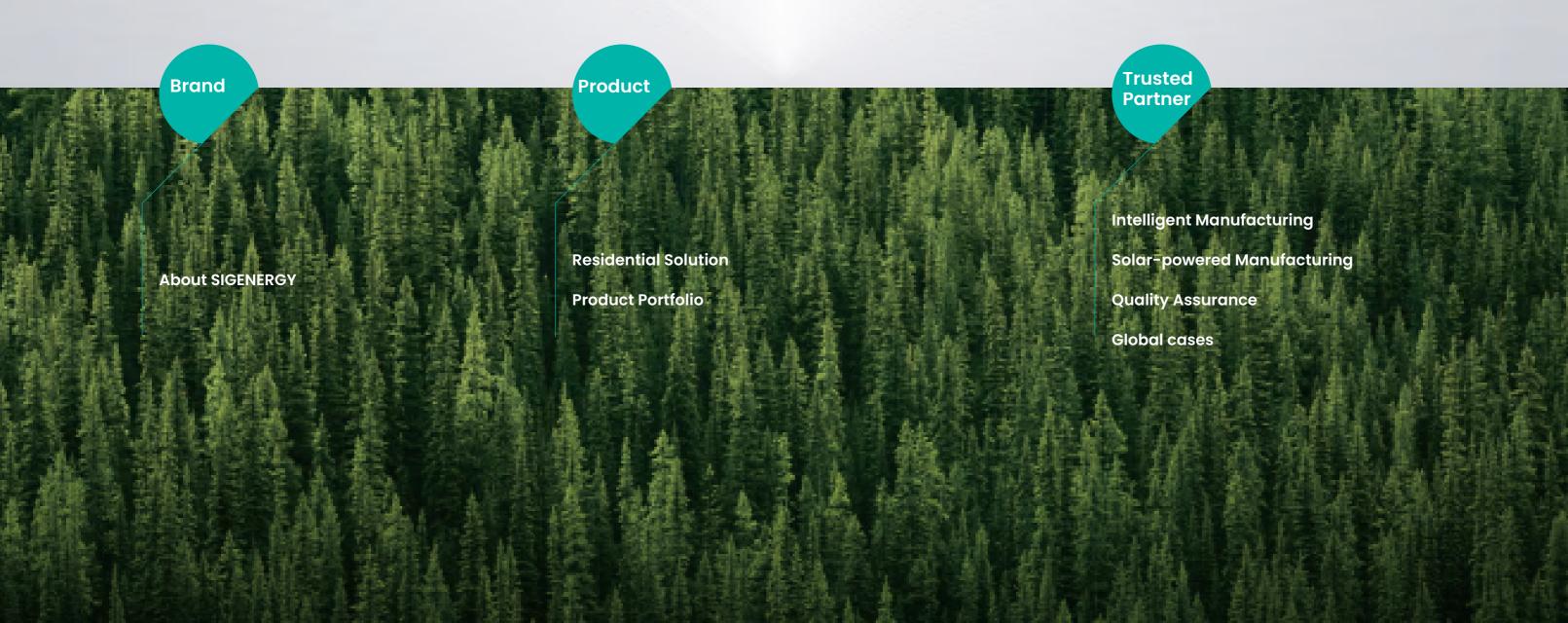


Sigenergy focuses on developing cutting-edge home and business energy solutions, with products ranging from energy storage systems to solar inverters and EV chargers. Our world-class R&D team of hundreds of top industry experts shares the vision of making the world greener via continuous innovation. 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

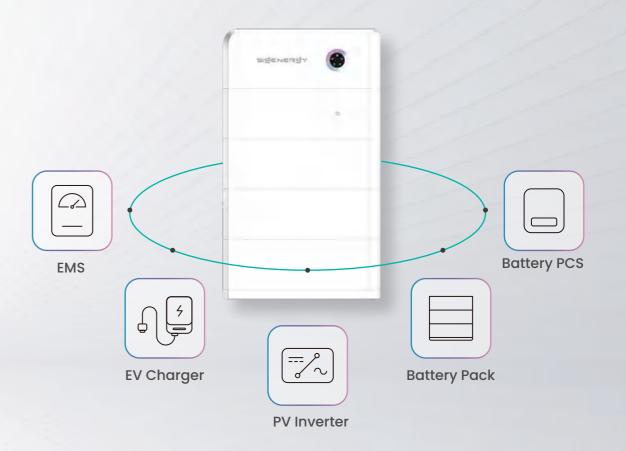
Robust

(\$ 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 37				0						
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	Unit
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					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	A
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				30 / 240				220 / 230		V
Nominal grid frequency			. , =		50 / 60		1	, , , , , ,		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			220 / 23	30 / 240				220 / 230		V
Nominal output frequency					50 / 60					H
Power factor				0.8 lead	ding ~ 0.8	lagging				
Total voltage harmonic distortion					THDv < 2%)				-
Disruption time of backup switch ²					0					m
Battery Connection										
Battery module models				Sigen	Stor BAT 5	.0 / 8.0				
Number of modules per controller					1~6					рс
Battery module voltage range					300 ~ 600)				V
Protection										
Safety protection feature	DC Arc	fault circ	uit interru	upter ³ , AC	Insulation C overcurr e protecti	ent/overv	/oltage/sl	nort-circu	it protect	ing, ion.
General Data										
Dimensions (W / H / D)			700 / 30	00 / 245			70	0 / 300 / 2	260	mr
Weight				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 / RS	485 / Sige	n Commi	Mod (4G/	3G/2G)		
				,	. 5			. ,		
Standard Compliance										

- 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)		<u> </u>				<u> </u>					
Max. PV power	8000	9600	12800	16000	19200	24000	27200	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				1		
Number of PV strings per MPPT	-					1	l				
Max. input current per MPPT					1	6					Α
Max. short-circuit current per MPPT					2	.0					А
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	Α
Iominal output voltage						/ 400					V
Nominal grid frequency						/ 60					Hz
Power factor				0.8		~ 0.8 lago	aina				
otal current harmonic distortion						< 2%	59				
Efficiency											
Max. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.4%	
uropean efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	98.0%	
AC Output (backup)											
	7500		10000	15000	10000	00500	05500	00000		00000	
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	36000	W
Nominal output voltage						/ 400					V
lominal output frequency				0.0		60					Hz
Power factor				0.8		~ 0.8 lago	ging				
Total voltage harmonic distortion					THDv						
Disruption time of backup switch ²)				<u> </u>	ms
Battery Connection											
sattery module models				Sig	genStor E	BAT 5.0 /	8.0				
Number of modules per controller					1 ~	- 6					рс
Battery module voltage range					600 -	~ 900					V
Protection											
Safety protection feature	D A	C reverse rc fault c	ircuit inte	protecti errupter ³ DC/AC s	, AC ove	rcurrent	overvolt	age/sho	rt-circuit	monitorir protectio	ng, on.
General Data											
Dimensions (W / H / D)					700 / 30	00 / 260					mr
Veight					3	6				-	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					Smart ai	r cooling	 			·	
System ingress protection rating						<u>_</u> 66					
Communication		WLAI	N / Fast E	thernet /	RS485 /	Sigen Co	ommMo	d (4G/3G	(/2G)		
Standard Compliance											
stariaara compilarios											

- 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	Units
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			А
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	А
Max. output current	14.5	17.4	23.1	28.9	34.7	А
Nominal output voltage			220 / 230			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%			
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			pcs
Battery module voltage range			300 ~ 600			V
Protection						
Safety protection feature	DC reverse 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			mm
Weight			36			kg
Storage temperature range			-40 ~ 70			°C
Operating temperature range	-		-30 ~ 60			°C
Relative humidity range			0% ~ 95%			
Max. operating altitude			4000			m
Cooling			Smart air cooling	9		
System ingress protection rating			IP66			
Communication	WLAN	N / Fast Ethernet	RS485 / Sigen C	ommMod (4G/30	3/2G)	

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

Standard Compliance

Standard ³

Sigen Energy Controller Three Phase Low Voltage is only available in specific regions. Please contact Sigenergy or local distributors for details.

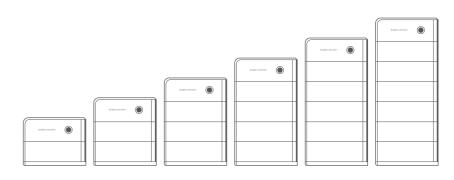
This is an optional feature only supported in certain models, please contact Sigenergy for more information.

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	LiF	FePO4	
Total energy capacity	5.38	8.06	kWh
Usable energy capacity ¹	5.2	7.8	kWh
Battery modules voltage range (single phase system)	300	0 ~ 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	270 / 260	mm
Storage temperature range	-2!	5 ~ 60	°C
Operating temperature range	-20	0 ~ 55	°C
Relative humidity range	5%	~ 95%	
Max. operating altitude	4	1000	m
Cooling	Natural	convection	
System ingress protection rating	I	P66	
Installation method	Floor standing	g / Wall-mounted	
Standard Compliance			
Standard	IEC/EN 60730-1, UN 38.3, IEC	C/EN 62619, IEC/EN 63056, IEC/EN 620	040



Number of battery modules ²	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 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

- Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.
- 2. The data in the table is based on the combination of SigenStor BAT 8.0 and SigenStor EC three-phase as an example, with a ground-mounted installation.



Sigen EV DC Charging Module

- 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	CC	CS2	
Protection			
Short-circuit protection	Supp	orted	
Over / Under voltage protection	Supp	orted	
Overload protection	Supp	orted	
Over temperature protection	Supp	orted	
Reverse polarity protection	Supp	orted	
Welded contactor check	Supp	orted	
General Data			
Dimensions (W / H / D)	700 / 2	70 / 260	mm
Weight ²	37 (5m cable) / 39 (7.5n	n 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	40	000	m
Cooling	Smart ai	ir cooling	
System ingress protection rating	IP	66	
Integrated charging cable length ³	5 / 7.	5 / 10	m
Function			
Authentication	RFID card / App /	No authentication	
Application	Bi-directional V2X operation	⁴ , Smart load management	
User interfaces	LED indicate	or, App, RFID	
Remote function	OTA, Remote	e diagnostics	
Standard Compliance			
Standard ⁵	EN IEC 61851-1, EN 61851-23, EN		

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

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	Uni
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					Δ
AC Output (on-grid)										
Nominal output power	3000	3680	4000	4600	5000	6000	8000	10000	12000	V
Max. output apparent power	3300	3680	4400	5000	5500	6600	8800	11000	12000	V
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	
Nominal output voltage			220 / 23	30 / 240				220 / 230		\
Nominal grid frequency				,	50 / 60			,		Н
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				Sigens	Stor BAT 5	.0 / 8.0				
Number of modules per controller					1~6					po
Battery module voltage range					300 ~ 600)				
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	12000	15000	15000	V
Nominal output voltage			220 / 23	30 / 240				220 / 230		\
Protection										
Safety protection feature	DC Arc	fault circ	uit interru	ipter ² , AC	overcurr	ent/over	/oltage/s	ual curren hort-circu protectior	t monitori it protecti	ing, ion.
General Data										
Dimensions (W / H / D)			700 / 30	00 / 268			70	0 / 300 / 2	283	m
Weight			18	8				36		k
Storage temperature range					-40 ~ 70					0(
Operating temperature range					-30 ~ 60					0(
Relative humidity range					0% ~ 95%					
Max. operating altitude					4000					n
			Natural c	onvection	1		Sm	art air cod	oling	
Cooling					IP66					
Ingress protection rating				\\/	all-mount	ed				
-				VVV	all Illouill	.00				

- 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					A
Max. short-circuit current per MPPT					2	20					A
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	Α
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				Siç	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			ircuit int		AC ove	rcurrent	overvolt/	age/sho	rt-circuit	monitorir protectio	
General Data											
Dimensions (W / H / D)					700 / 30	00 / 283					mm
Weight					3	36					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	ir cooling	1				
ngress protection rating					IP	66					
nstallation method					Wall-m	nounted					
Communication		WLA	N / Fast I	Ethernet ,	RS485 /	Sigen C	ommMo	d (4G/3G	9/2G)		
Standard Compliance											
Standard ³		IEO/EN	60100 3	IEC/EN 62	100 0 15	O/FN 030	00 6 1 15	-0/FN 030	00.0.0		
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^{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

3.0 SP

3.6 SP

4.0 SP

4.6 SP

5.0 SP

6.0 SP

Units

Sigen PV Max

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			4	2			
Number of PV strings per MPPT				1			
Max. input current per MPPT			1	6			Α
Max. short-circuit current per MPPT			2	0			A
AC Output							
Nominal output power	3000	3680	4000	4600	5000	6000	W
Max. output apparent power	3300	3680	4400	5000	5500	6600	VA
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	А
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	A
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				< 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 interru	otection, Insula upter ¹ , AC over C/AC surge pro	rcurrent/overv	/oltage/short-	circuit protect	ring, tion.
General Data							
Dimensions (W / H / D)			700 / 30	00 / 268			mm
Weight			1:	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			IP	66			
Installation method			Wall-m	ounted			
Communication	W	LAN / Fast Ethe	ernet / RS485 /	Sigen Comm	Mod (4G/3G/2	G)	
Standard Compliance							
Standard ²	IEC/EN	62109-1, IEC/EI	N 00100 0 150/	EN CO 477 JEO/	FN 01000 0 1 II		

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			1			<u>'</u>	<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					V
Start-up voltage	-				180					V
MPPT voltage range					160 ~ 1000					V
Number of MPP. trackers		2			3			4		
Number of PV strings per MPPT				1	1		ı			
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	Α
Nominal output voltage					380 / 400					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	98.1%	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	D(At	C reverse rc fault cir	cuit interr	upter ¹ , AC	Insulation Covercurr e protecti	ent/overv	oltage/sh	ort-circui	monitorin t protectio	ng, on.
General Data										
Dimensions (W / H / D)				70	0 / 300 / 2	283				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				Sm	art air coc	oling				
Ingress protection rating					IP66					
Installation method				W	all-mount	ed				
ii istaliation metrioa										

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

Standard ²

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	A
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 Ch	arger Port (optional)		
Max. number of connection	3	2	
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC current	55 (INV1), 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	0	°C
Operating temperature range	-30 ~ 5	5	°C
Relative humidity range	0% ~ 95	%	
Max. operation altitude	4000		m
Cooling	Natural conv	rection	
Ingress protection rating	IP54		
Communication	Fast Ethernet, RS485	5, dry contact	
Installation method	Wall mour	nted	

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	1F	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	Α			
Nominal AC frequency		50 / 60		Hz			
Vehicle connection	Ty	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	External meter with RS485 / Integrated 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			
	EN IEC 61051-1 II	 EC 62955, EN IEC 61851-21-2, ETS	H EN 300 330 V211				
Standard ⁴		12.5.1, EN IEC 62311, EN50665, ETSI					

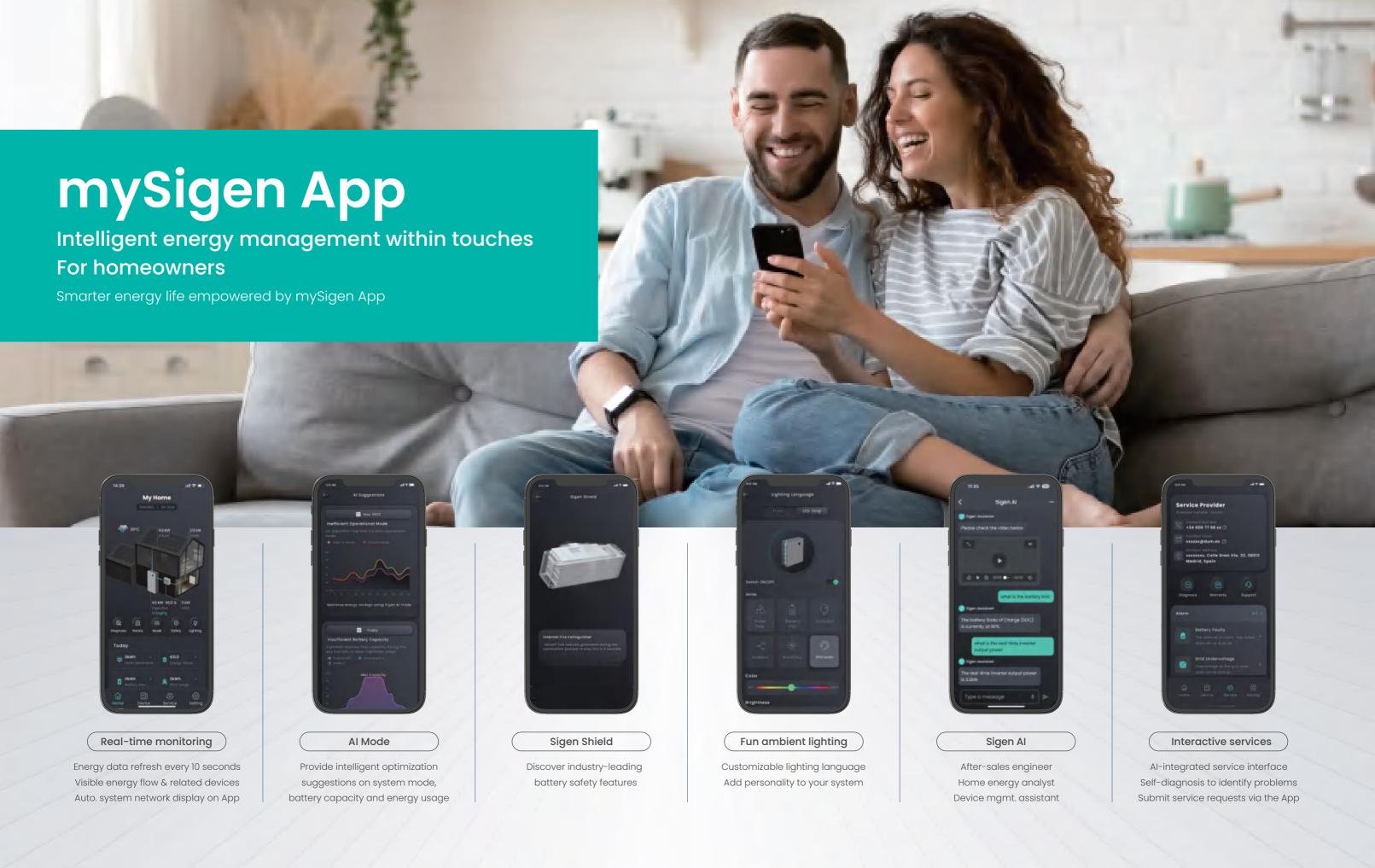
^{*} Only works with Sigenergy home energy solution or additional Sigen Power Sensor

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.

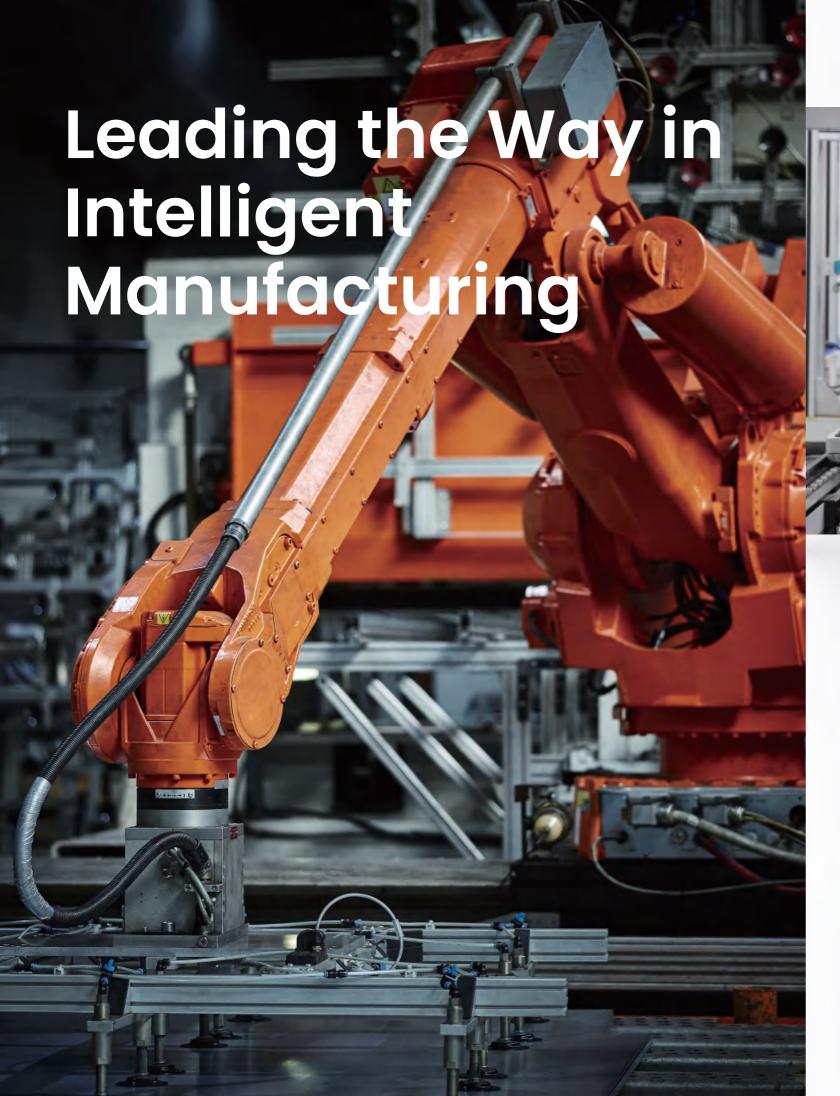
This function needs to be used with SigenStor.

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

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









6 GWhBattery production capacity



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.



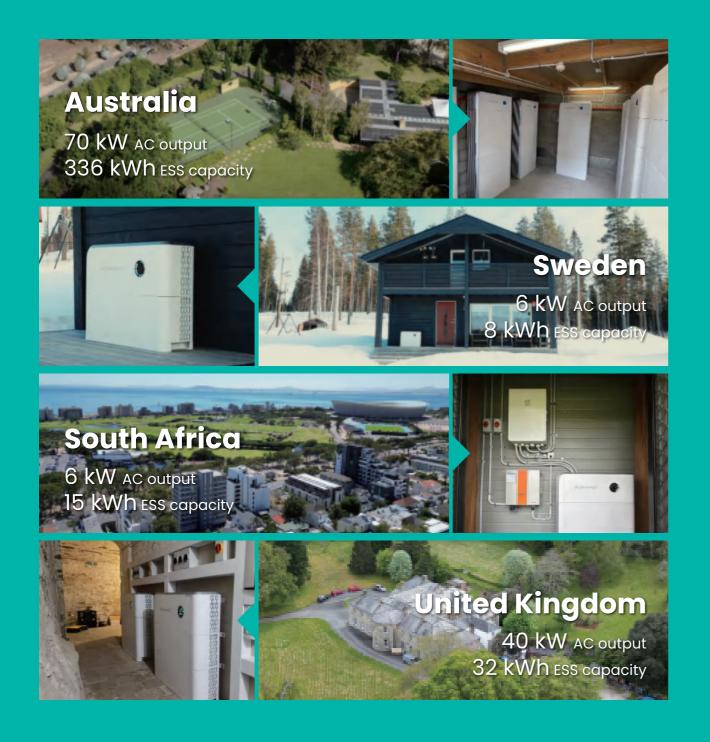
Manufacturing Execution System (MES)

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.

