



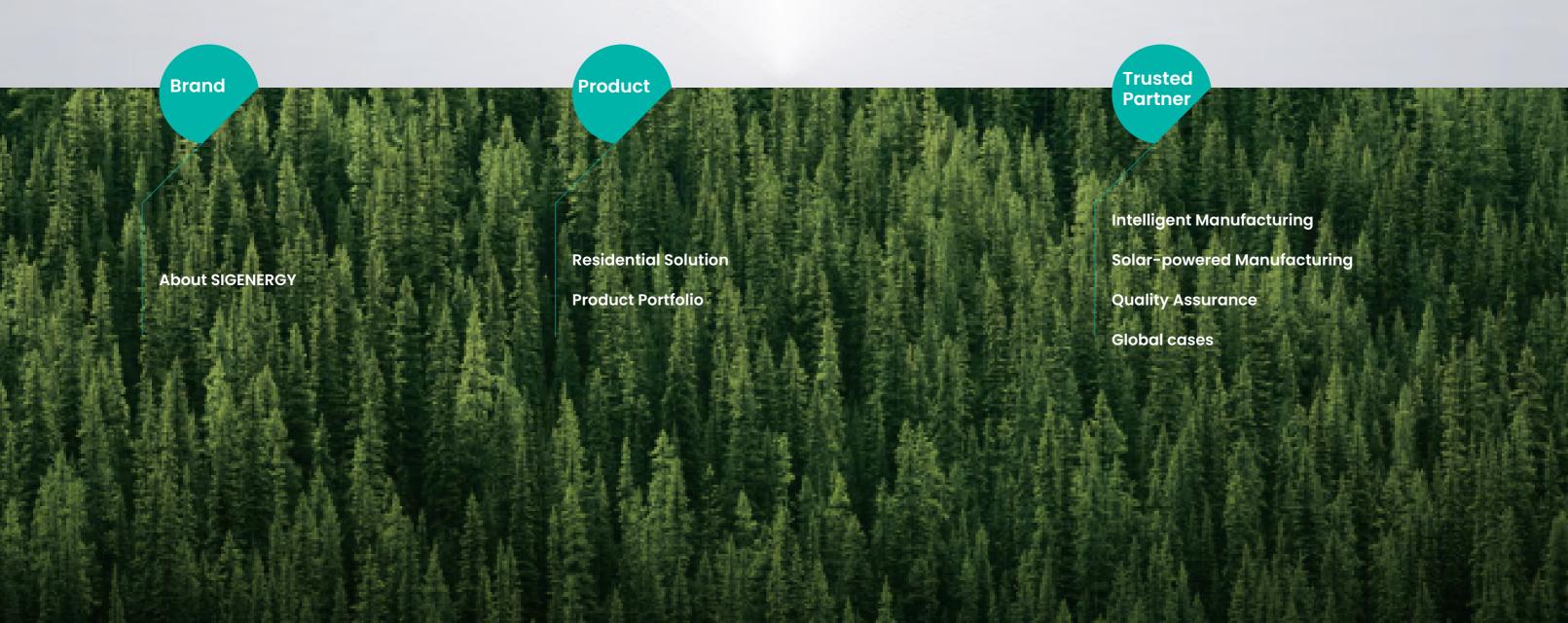


**Sigenergy** focuses on developing cutting-edge home and business energy solutions, with products ranging from energy storage systems to solar inverters and EV chargers. Our world-class R&D team of hundreds of top industry experts shares the vision of making the world greener via continuous innovation.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

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

### VISION Enjoy Green Energy

### **MISSION**

Be a distributed energy pioneer.

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

# SIGEN

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

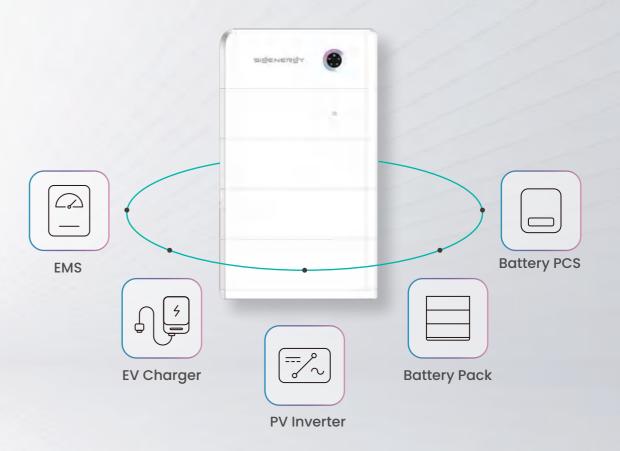
Robust

(<del>\$</del> Intelligent





### 5-in-One, highly integrated design



Sigenergy is leading a new way of producing, storing, transferring, and consuming home energy. We provide a genuine all-in-one solar energy storage system, SigenStor. Its unique 5-in-One modular design integrates Solar Inverter, EV DC Charger, Battery PCS, Battery Pack, and EMS into one intelligent home energy system. Simple, robust and versatile, it will be a great addition to your home.





### **Sigen Energy Controller** 3.0-6.0 kW Single Phase

SigenStor EC	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units
DC Input (from PV)	<u>'</u>	'		1	<u>'</u>		
Max. PV power	6000	7360	8000	9200	10000	12000	W
Max. DC input voltage			60	00		-	
Nominal DC input voltage			35	50			V
Start-up voltage			10	00			
MPPT voltage range			50 ~	550			V
Number of MPP. trackers			2	2			
Number of PV strings per MPPT				1			
Max. input current per MPPT			](	6			А
Max. short-circuit current per MPPT			2	.0			А
AC Output (on-grid)							
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	Α
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%	
AC Output (backup)							
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W
Nominal output voltage	220 / 230 / 240						V
Nominal output frequency			50 /	/ 60			Hz
Power factor			0.8 leading	~ 0.8 lagging			
Total voltage harmonic distortion			THDv	/ < 2%			
Disruption time of backup switch <sup>1</sup>			(	D			ms
Battery Connection							
Battery module models			SigenStor E	BAT 5.0 / 8.0			
Number of modules per controller			1~				pcs
Battery module voltage range			300 -	~ 600			V
Protection							
Safety protection feature	DC reve Arc faul	lt circuit interru	rotection, Insula upter <sup>2</sup> , AC ove C/AC surge pro	rcurrent/over	voltage/short-	circuit protec	oring,
General Data							
Dimensions (W / H / D)			700 / 30	00 / 245			mm
Weight				8			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			Natural co	onvection			
System ingress protection rating			IP	66			
Communication	W	'LAN / Fast Ethe	ernet / RS485 /	Sigen Comm	Mod (4G/3G/2	G)	
Standard Compliance							
Standard <sup>3</sup>	IEC/EN	62109-1 IEC/E	N 62109-2, IEC/	EN 62477 IEC/	EN 61000-6-1 II	EC/EN 61000-	6-2

<sup>1.</sup> 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 Fneray Controller 5.0-25.0 kW Three Phase

SigenStor EC	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	Unit
DC Input (from PV)										
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W
Max. DC input voltage					1100					V
Nominal DC input voltage					600				·	V
Start-up voltage					180					V
MPPT voltage range					160 ~ 1000					V
Number of MPP. trackers		2			3			4		
Number of PV strings per MPPT					1					
Max. input current per MPPT					16					Α
Max. short-circuit current per MPPT					20					А
AC Output (on-grid)										
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	А
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	А
lominal output voltage					380 / 400					V
Nominal grid frequency					50 / 60					Hz
Power factor				0.8 lea	ding ~ 0.8	lagging				
otal 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%	
uropean efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	
AC Output (backup)		,					,			
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W
lominal output voltage					380 / 400					V
lominal output frequency					50 / 60					Hz
Power factor				0.8 lea	ding ~ 0.8	lagging				
Total voltage harmonic distortion					THDv < 2%	)				
Disruption time of backup switch <sup>1</sup>					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					600 ~ 900					V
Protection										
Safety protection feature	DC Arc	c fault circ	cuit interr	upter <sup>2</sup> , A(	Insulation C overcurr ge protecti	ent/overv	/oltage/sl	nort-circu	it monitorir iit protection	ng, on.
General Data										
Dimensions (W / H / D)				70	00 / 300 / 2	260				mr
Veight					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 coc	ling				
System ingress protection rating					IP66					
Communication		WLAN	/ Fast Ethe	ernet / RS	485 / Sige	n Commi	Mod (4G/	3G/2G)		
Standard Compliance										
standard <sup>3</sup>		IEC/EN 62		1						

<sup>1.</sup> 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.

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

<sup>2.</sup> This is an optional feature only supported in certain models, please contact Sigenergy for more information.

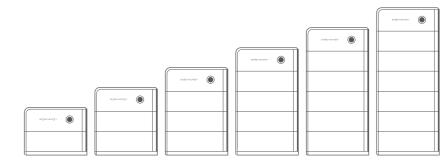
<sup>3.</sup> For all standards refer to the certificates category in the Sigenergy website.

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### Sigen Battery 5.0 / 8.0 kWh

SigenStor BAT	5.0	8.0	Units
Performance Specification			
Battery type	LiFe	ePO4	
Total energy capacity	5.38	8.06	kWh
Usable energy capacity <sup>1</sup>	5.2	7.8	kWh
Battery modules voltage range (single phase system)	300	~ 600	V
Battery modules voltage range (three phase system)	600	~ 900	V
Max. charge / discharge power	2500	4000	W
Peak charge / discharge power (10 seconds)	3750	6000	W
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	40	000	m
Cooling	Natural c	convection	
System ingress protection rating	IP	P66	
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	)40



Number of battery modules <sup>2</sup>	1	2	3	4	5	6	pcs
Total energy capacity	8.06	16.12	24.18	32.24	40.3	48.36	kWh
Max. charge / discharge power	4	8	12	16	20	24	kW
Total weight	112	183	254	325	396	467	kg
Total height (with base)	640	910	1180	1450	1720	1990	mm
Total width (with decorative covers)			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.

  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 groundmounted 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 <sup>1</sup>	12	25	Units
DC Charging			<u>'</u>
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	ported	
Over / Under voltage protection	Supp	ported	
Overload protection	Supp	ported	
Over temperature protection	Supp	ported	
Reverse polarity protection	Supp	ported	
Welded contactor check	Supp	ported	
General Data			
Dimensions (W / H / D)	700 / 2	70 / 260	mm
Weight <sup>2</sup>	37 (5m cable) / 39 (7.5r	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 a	ir cooling	
System ingress protection rating	IP	66	
Integrated charging cable length <sup>3</sup>	5/7	.5 / 10	m
Function			
Authentication	RFID card / App /	No authentication	
Application		<sup>4</sup> , Smart load management	
User interfaces		or, App, RFID	
Remote function	OTA, Remote	e diagnostics	
Standard Compliance			
Standard <sup>5</sup>	EN IEC 61851-1, EN 61851-23, EN	IEC 61851-21-2, ETSI EN 303 645	

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

<sup>2.</sup> 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

<sup>5.</sup> For all standards refer to the certificates category in the Sigenergy website.



# Sigen Hybrid Inverter

3.0 - 6.0 kW Single Phase

**5.0 - 25.0 kW** Three Phase

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

### **Sigen Hybrid Inverter** 3.0-6.0 kW Single Phase

Sigen Hybrid	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units
DC Input							'
Max. PV power	6000	7360	8000	9200	10000	12000	W
Max. DC input voltage			60	00			V
Nominal DC input voltage			3!	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			
Max. input current per MPPT			1	6			А
Max. short-circuit current per MPPT			2	20			А
AC Output (on-grid)							
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	Α
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				i < 2%			
Efficiency							
Max. efficiency			98	3.0%			
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	
Additional Features							
Compatible battery module			SiaenStor E	BAT 5.0 / 8.0			
Number of modules per controller				~ 6			pcs
Battery module voltage range	<del></del>			~ 600			V
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W
Nominal output voltage				30 / 240			V
Protection			220 / 20	00 / 2 10			
Safety protection feature		erse polarity pr It circuit interro Type II DC		rcurrent/overv	oltage/short-	circuit protec	
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	000			m
Cooling			Natural c	onvection			
Ingress protection rating	-		IP	66			
Installation method			Wall-m	nounted			
Communication	W	/LAN / Fast Ethe	ernet / RS485 /	Sigen Comm	Mod (4G/3G/2	2G)	
Standard Compliance							

### Sigen Hybrid Inverter 5.0-25.0 kW Three Phase

Sigen Hybrid	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	Unit
DC Input										
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W
Max. DC input voltage					1100					V
Nominal DC input voltage					600					V
Start-up voltage					180					V
MPPT voltage range					160 ~ 1000					V
Number of MPP. trackers		2			3			4		
Number of PV strings per MPPT				'	1					
Max. input current per MPPT					16					А
Max. short-circuit current per MPPT					20					А
AC Output (on-grid)										
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	А
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	A
Nominal output voltage					380 / 400					V
Nominal grid frequency					50 / 60					Hz
Power factor				0.8 lea	ding ~ 0.8 I	agging				
Total current harmonic distortion					THDi < 2%	00 0				
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%	
Additional Features										
Compatible battery module				Sigen	Stor BAT 5.	0 / 8.0				
Number of modules per controller				9	1~6	- / 0			-	рс
Battery module voltage range					600 ~ 900					
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W
Nominal output voltage	-,000		.2000		380 / 400					
Protection										
11000001		2 5011050	n a lavity ( n)	rataatian	Inquilation	no on it or in	a Daoidu	al aurrant	t na anitarin	
Safety protection feature	1A	rc fault cir	cuit interr	upter <sup>1</sup> , A(	Insulation Covercurre	ent/overv	oltage/sh	ort-circui	t protectio	ig, on.
			Type II DO	C/AC surg	ge protecti	on, Anti-is	landing p	rotection		
General Data										
Dimensions (W / H / D)				70	00 / 300 / 2	83				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 coo	ling				
Ingress protection rating					IP66					
Installation method				W	all-mount	ed				
Communication		WLAN	/ Fast Ethe	ernet / RS	485 / Sigei	Comm	лоd (4G/3	3G/2G)		
Standard Compliance										
Standard <sup>2</sup>		IEC/EN 6	2109-1, IEC	/EN 62109	9-2, IEC/EN	61000-6-	I, IEC/EN 6	1000-6-2		
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 For all standards refer to the certificates category in the Sigenergy website.

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<sup>2.</sup> For all standards refer to the certificates category in 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			1	2					
Number of PV strings per MPPT				1					
Max. input current per MPPT			]	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	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		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		It circuit interr	rotection, Insulo rupter <sup>1</sup> , AC over C/AC surge pro	rcurrent/oven	voltage/short-	circuit protec			
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 c	onvection					
Ingress protection rating			IP	66					
Installation method			Wall-m	ounted					
Communication	W	LAN / Fast Eth	ernet / RS485 /	Sigen Comm	Mod (4G/3G/2	G)			
Standard Compliance									
Standard <sup>2</sup>	IEC/EN	62109-1, IEC/E	EN 62109-2, IEC/	EN 62477 IEC/	EN 61000-6-1 II	EC/EN 61000-	6-2		

### **Sigen PV Inverter** 5.0-25.0 kW Three Phase

Sigen PV Max	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	Units
DC Input		'				'				
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W
Max. DC input voltage					1100					V
Nominal DC input voltage	_				600					V
Start-up voltage					180					V
MPPT voltage range					160 ~ 1000	)				V
Number of MPP. trackers		2			3			4		
Number of PV strings per MPPT					1					
Max. input current per MPPT					16					Α
Max. short-circuit current per MPPT					20					Α
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	Α
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	А
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	DC Ar	C reverse   c fault cir	cuit interr	upter <sup>1</sup> , AC	overcurr	monitorir ent/overv on, Anti-is	oltage/sh	ort-circui	monitorin t protectio	ig, n.
General Data										
Dimensions (W / H / D)				70	0 / 300 / 2	283				mm
Weight	_				36					kg
Storage temperature range					-40 ~ 70					°C
Operating temperature range					-30 ~ 60					°C
Relative humidity range					0% ~ 95%					
Max. operating altitude					4000					m
Cooling				Smo	art air cod	oling				
Ingress protection rating					IP66					
Installation method				W	all-mount	ed				
Communication		WLAN	/ Fast Eth	ernet / RS4	485 / Sige	n Commi	Mod (4G/3	3G/2G)		
Standard Compliance										_
Standard <sup>2</sup>		IEC/EN 6	2109-1, IEC	/EN 62109	-2, IEC/EN	61000-6-	1, IEC/EN 6	1000-6-2		
		.,	,	,	, , , , =		,			

<sup>1.</sup> This is an optional feature only supported in certain models, please contact Sigenergy for more information.

<sup>2.</sup> For all standards refer to the certificates category in the Sigenergy website.

<sup>1.</sup> This is an optional feature only supported in certain models, please contact Sigenergy for more information.

<sup>2.</sup> For all standards refer to the certificates category in 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 Single / Three Phase

Preliminary

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 <sup>1</sup>	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 Char	ger 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) <sup>2</sup>	38	А
Compatible EV charger power	7	11 / 22	kW
Smart Port Connection			
Generator output voltage	220 / 230 / 240	380 / 400	
Nominal current	63	76	A
Nominal AC power	13.8 / 14.5 / 15.1	50 / 52.6	kW
Generator 2-wire start	Suppo	orted	
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 (Power derating wh	en >35°C in on-grid mode)	°C
Relative humidity range	0% ~ 9		
Max. operation altitude	4000 (Power deration	ng when >2000m)	m
Cooling	Natural co	nvection	
Ingress protection rating	IP5	4	
Communication	Fast Ethernet, RS4	185, dry contact	
Installation method	Wall ma	punted	

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.

<sup>2.</sup> 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	Units
Connection interface	USB	,
Installation type	Plug-and-play	
Display	LED indicators	
Dimensions (W / H / D)	52 / 112 / 33	mm
Weight	90	g
Ingress protection rating	IP66	
Power consumption (typical)	< 4	W
Supported standards	4G: FDD-LTE / TDD-LTE 3G: WCDMA / HSDPA / HSUPA / HSPA+ 2G: GSM / GPRS / EDGE3	
Storage temperature range	-40 ~ 70	°C
Operating temperature range	-30 ~ 60	°C
Relative humidity range	0% ~ 95%	
Max. operating altitude	4000	m
Controller / Inverter compatibility	Sigen Energy Controller series Sigen Hybrid Inverter series Sigen PV Inverter series	





### Sigen Power Sensor

- 1% high-accuracy power detection for precise control
- LCD real-time info display, easy to operate and check
- Integrates smoothly with Sigenergy devices, no need for setup
- Top class 100 A direct connection in power sensor with built-in CT
- Support export/import limitations and ready for AI evolving
- 100 ms data refresh rate, instantaneous data feed

#### Sigen Power Sensor

Sigen Sensor <sup>1</sup>	SP-DH	SP-CT120-DH	TP-DH	TP-CT120-DH	Units				
Power Supply	'								
Grid connection type	1P:	2W	3P3W	/3P4W					
AC input voltage range	176 ·	~ 276	173 -	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		9600							
Protocol		9600 bps 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 -	- 85		°C				
Operating temperature range		-30 ~	- 60		°C				
Relative humidity range		0% ~	90%						
Ingress protection rating		IPE	51						
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						

<sup>1.</sup> 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

	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	A
Nominal AC frequency		50 / 60		Hz
Vehicle connection	Type 2 connector / Type 2 socket with shutter			
AC input cable width range		2.5 ~ 6.0		mm²
Protection				
Integrated DC fault detection <sup>1</sup>		6		mA
Integrated AC fault detection <sup>1</sup>		30		mA
Flame retardant rating		UL94-5VB		
Over / Under voltage protection		Supported		
Overload protection		Supported		
Over temperature protection		Supported		
PEN protection	Supported			
Randomized charging delay	Supported			
Ground fault protection	Supported			
Surge protection		Supported		
Grounding system		TT, TN, IT		
Protocol		DC/195 Modbus DTII		
		RS485, Modbus RTU 4G / WLAN / Fast Ethernet		
Communication	RFID card	<u>'</u>	entication)	
Communication Authentication	RFID card	4G / WLAN / Fast Ethernet	entication)	
Communication Authentication Display		4G / WLAN / Fast Ethernet d / App / Auto-charge (no auth		
Communication Authentication Display Charging mode <sup>2</sup>	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no auth LED indicator / App	Fast charging	
Protocol  Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup>	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no auth LED indicator / App arging / Solar boost charging /	Fast charging	
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup>	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no auth LED indicator / App arging / Solar boost charging / meter with RS485 / Integrated r	Fast charging	
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no authorized indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported	Fast charging	
Communication Authentication Display Charging mode <sup>2</sup> Metering Dynamic load management <sup>3</sup> Phase switching  General Data Dimensions (W / H / D)	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no authorized indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported	Fast charging	mm
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no auth LED indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported Supported	Fast charging	mm
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching  General Data  Dimensions (W / H / D)  Weight (case B / case C)  Storage temperature range	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no authorized indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported Supported 234 / 384 / 126	Fast charging	mm kg °C
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching  General Data  Dimensions (W / H / D)  Weight (case B / case C)  Storage temperature range  Operating temperature range	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no auth LED indicator / App arging / Solar boost charging / meter with RS485 / Integrated r Supported Supported  234 / 384 / 126 4.5 / 6.4	Fast charging	kg
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching  General Data  Dimensions (W / H / D)  Weight (case B / case C)  Storage temperature range  Operating temperature range	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no auth LED indicator / App arging / Solar boost charging / meter with RS485 / Integrated r Supported Supported  234 / 384 / 126 4.5 / 6.4 -40 ~ 70	Fast charging	kg °C
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching  General Data  Dimensions (W / H / D)  Weight (case B / case C)  Storage temperature range  Operating temperature range  Relative humidity range  Max. operating altitude	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no authorized indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported Supported  234 / 384 / 126  4.5 / 6.4  -40 ~ 70  -30 ~ 55  5% ~ 95%  4000	Fast charging	kg °C
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching  General Data  Dimensions (W / H / D)  Weight (case B / case C)  Storage temperature range  Operating temperature range  Relative humidity range  Max. operating altitude	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no authorized indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported Supported  234 / 384 / 126  4.5 / 6.4  -40 ~ 70  -30 ~ 55  5% ~ 95%	Fast charging	kg °C °C
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching  General Data  Dimensions (W / H / D)  Weight (case B / case C)  Storage temperature range  Operating temperature range  Relative humidity range  Max. operating altitude  Cooling  Ingress protection rating	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no auth LED indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported Supported  234 / 384 / 126 4.5 / 6.4 -40 ~ 70 -30 ~ 55 5% ~ 95% 4000  Natural convection IP65	Fast charging	kg °C °C
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching  General Data  Dimensions (W / H / D)  Weight (case B / case C)  Storage temperature range  Operating temperature range  Relative humidity range  Max. operating altitude  Cooling  Ingress protection rating  Installation method	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no auth LED indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported Supported  234 / 384 / 126  4.5 / 6.4  -40 ~ 70  -30 ~ 55  5% ~ 95%  4000  Natural convection IP65  Wall-mounted	Fast charging	kg °C °C
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching  General Data  Dimensions (W / H / D)  Weight (case B / case C)  Storage temperature range  Operating temperature range  Relative humidity range  Max. operating altitude  Cooling  Ingress protection rating  Installation method  Application environment	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no auth LED indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported Supported  234 / 384 / 126 4.5 / 6.4 -40 ~ 70 -30 ~ 55 5% ~ 95% 4000  Natural convection IP65	Fast charging	kg °C °C
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching  General Data  Dimensions (W / H / D)  Weight (case B / case C)  Storage temperature range  Operating temperature range  Relative humidity range  Max. operating altitude  Cooling  Ingress protection rating  Installation method  Application environment  Standby self-consumption	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no authorized indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported Supported  234 / 384 / 126  4.5 / 6.4  -40 ~ 70  -30 ~ 55  5% ~ 95%  4000  Natural convection IP65  Wall-mounted Outdoor / Indoor  < 3.6	Fast charging	kg °C °C
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching  General Data  Dimensions (W / H / D)  Weight (case B / case C)  Storage temperature range  Operating temperature range  Relative humidity range  Max. operating altitude  Cooling  Ingress protection rating  Installation method  Application environment  Standby self-consumption	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no authorized indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported Supported  234 / 384 / 126  4.5 / 6.4  -40 ~ 70  -30 ~ 55  5% ~ 95%  4000  Natural convection IP65 Wall-mounted Outdoor / Indoor	Fast charging	kg °C °C m
Communication  Authentication  Display  Charging mode <sup>2</sup> Metering  Dynamic load management <sup>3</sup> Phase switching  General Data  Dimensions (W / H / D)  Weight (case B / case C)  Storage temperature range	100% PV cho	4G / WLAN / Fast Ethernet d / App / Auto-charge (no authorized indicator / App arging / Solar boost charging / meter with RS485 / Integrated in Supported Supported  234 / 384 / 126  4.5 / 6.4  -40 ~ 70  -30 ~ 55  5% ~ 95%  4000  Natural convection IP65  Wall-mounted Outdoor / Indoor  < 3.6	Fast charging	kg °C °C m

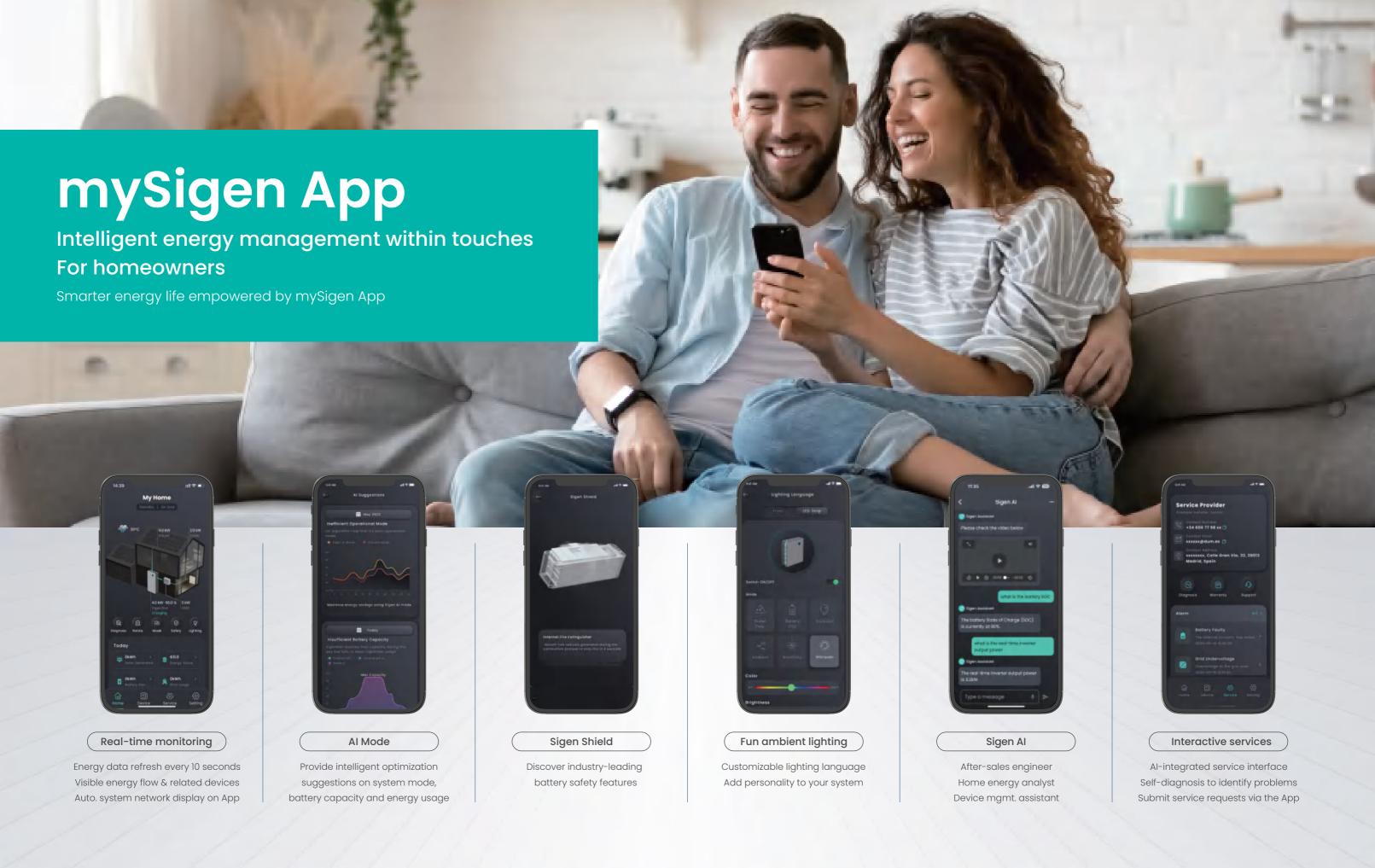
<sup>\*</sup> Only works with Sigenergy home energy solution or additional Sigen Power Sensor

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.

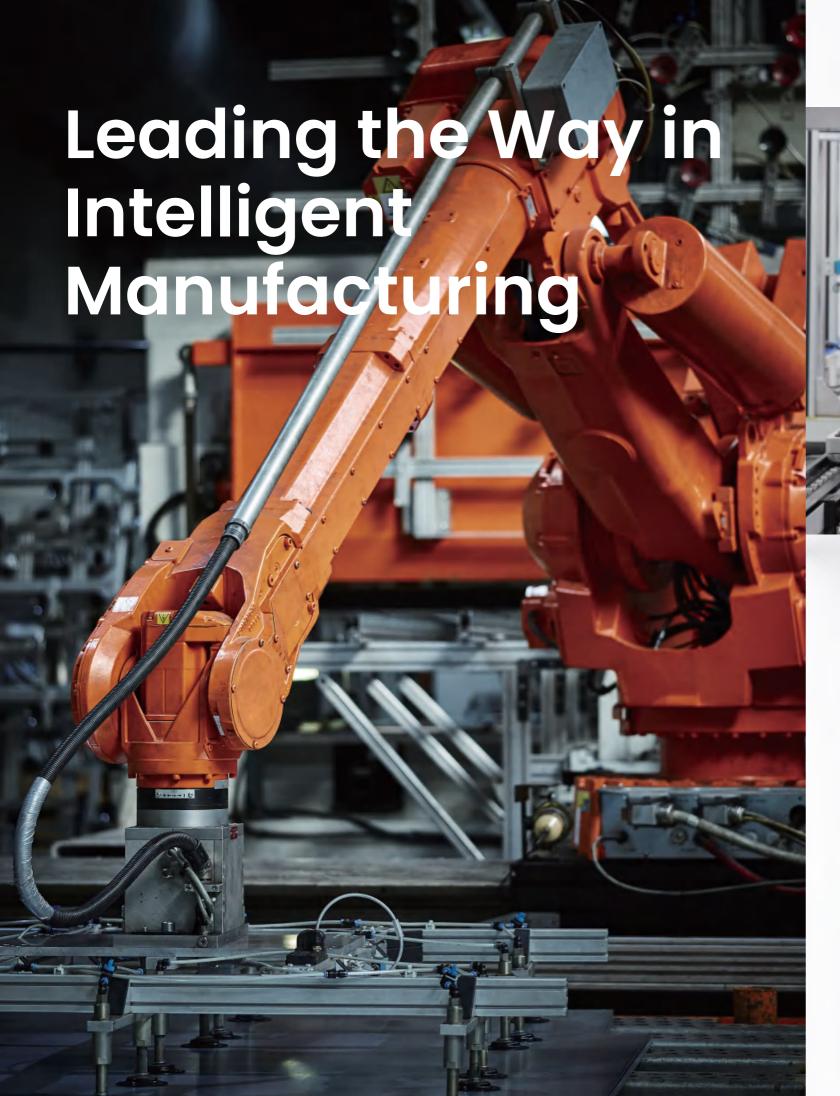
<sup>2.</sup> This function needs to be used with SigenStor.

<sup>3.</sup> This function needs to be used with Sigen Power Sensor.

<sup>4.</sup> For all standards refer to the certificates category in the Sigenergy website.









**6 GWh**Battery 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 m<sup>2</sup>



(b) 240 kWac

₹ 432 kWh

#### **Estimated Annual Generation**

398,200 kWh

### **Community Contribution per Year**

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



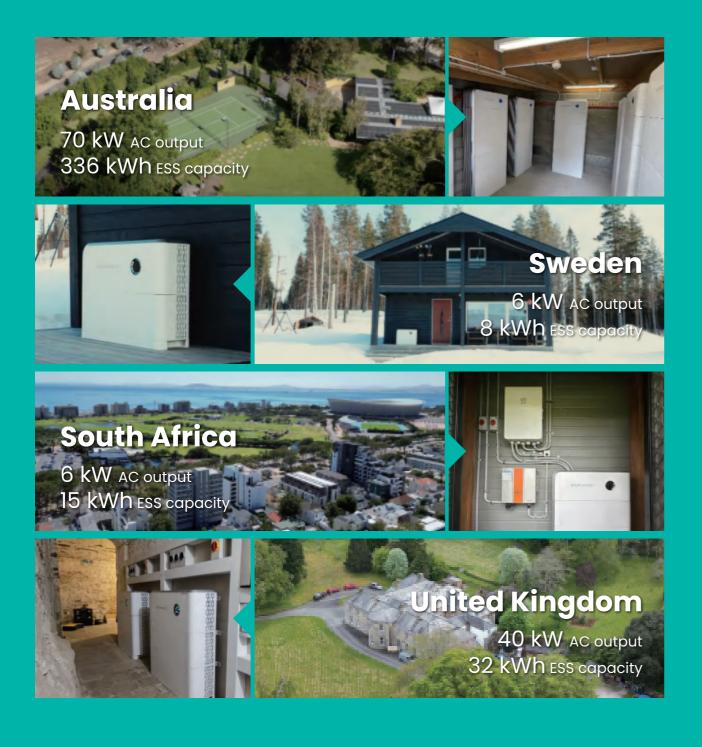
### Manufacturing Execution System (MES)

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.

