

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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SIŻENERŻY



Let the world enjoy green energy

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Intelligent Manufacturing

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Quality Assurance



ABOUT SIGENERGY

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

VISION Enjoy Green Energy

MISSION

Be a distributed energy pioneer. Build intelligent energy solutions with superior safety, ultra simplicity, and outstanding performance.



Safe Intelligent Green Efficient New

GIAN

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 stackable installation

5 layers **280** Ah battery protection

long cycle-life battery cell



5 mins fast commissioning

IP66 SigenStor protection rating 25 kW fast EV charging at home

-click full system diagnosis



6 Versatile

Z Robust



Intelligent





Sigen Energy Controller for solar + energy storage system

Sigen EV DC Charging Module Ready for V2X

Sigen Battery



1 - 6batteries stackbale for per stack

5 kWh – 48 kWh energy capacity range for per stack

Multiple systems supported in parallel connection

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.



5-in-One, highly integrated design

SIDENERdy



	-	
enerdy		
C.		
	-8	
	1	
•		Battery PCS
	el.	
		Battery Pack
PV Inverter		



5.0 - 25.0 kW Three Phase

- EMS inside for precise control
- Up to 4 MPP. trackers (three phase)
- Multi-source black start

• On & off-grid compatibility • DC/AC ratio up to 2 (single phase) • IP66 system protection rating

Sigen Energy Controller 3.0-6.0 kW Single Phase

7360 7360 3680 3680 16.0 16.0	38 10 50 ~ 2 1 2 4000 4400 18.2 20.0	-	10000	12000	W V V V V
3680 3680 16.0	60 38 10 50 ~ 2 1 1 2 4000 4400 18.2 20.0	200 50 550 2 1 6 6 0 4600		12000	V V V V
3680 3680 16.0	60 38 10 50 ~ 2 1 1 2 4000 4400 18.2 20.0	200 50 550 2 1 6 6 0 4600			V V V V
3680 16.0	38 10 50 ~ 2 1 2 4000 4400 18.2 20.0	50 550 2 1 6 0 4600	5000		V V V A
3680 16.0	10 50 ~ 2 1 2 4000 4400 18.2 20.0	00 550 2 1 6 0 4600	5000		V V A
3680 16.0	50 ~ 2 1 2 4000 4400 18.2 20.0	550 2 1 6 0 4600	5000		V
3680 16.0	4000 4400 18.2 20.0	2 1 6 0 4600	5000		A
3680 16.0	1 2 4000 4400 18.2 20.0	1 6 0 4600	5000		
3680 16.0	2 4000 4400 18.2 20.0	4600	5000		
3680 16.0	2 4000 4400 18.2 20.0	4600	5000		
3680 16.0	4400 18.2 20.0		5000		
3680 16.0	4400 18.2 20.0		5000		
3680 16.0	4400 18.2 20.0			6000	W
16.0	18.2 20.0		5500	6600	VA
	20.0	20.9	22.7	27.3	A
		22.7	25.0	30.0	A
	220/23	30 / 240	2010	0010	V
		/ 60			Hz
		~ 0.8 lagging			
	-	< 2%			
	0.9	.0%			
97.1%	97.2%	97.3%	97.4%	97.4%	
07.170	07.270	07.070	07.470	07.470	
5500		0000	7500	0000	
5520	6000	6900	7500	9000	W
	220 / 23	60			V Hz
		~ 0.8 lagging			ΠΖ
		r < 2%			
)			ms
					1113
	<u> </u>				
	SigenStor E				
		6			pcs
	300 /	- 000			V
fault circuit inter	rupter ² , AC ove	rcurrent/overv	oltage/short-	circuit protec	ring, tion.
	700 / 30	00 / 245			mm
		-			kg
	-40	~ 70			°C
	-30	~ 60			°C
	0% ~	95%			
	40	00		$\overline{\mathcal{V}}$	m
	Natural c	onvection			
	IP	66	<u></u>		
	nernet / RS485 /	Sigen Commi	vlod (4G/3G/2	G)	
WLAN / Fast Etl					
WLAN / Fast Etl		ENI 62477 IEC/	N 61000-6-1 //		3-0
	fault circuit inter Type II E WLAN / Fast Etl	reverse polarity protection, Insula fault circuit interrupter ² , AC ove Type II DC/AC surge pro 700 / 30 1 -40 -30 0% ~ 40 Natural c IP WLAN / Fast Ethernet / RS485 /	fault circuit interrupter ² , AC overcurrent/overv Type II DC/AC surge protection, Anti-is 700 / 300 / 245 18 -40 ~ 70 -30 ~ 60 0% ~ 95% 4000 Natural convection IP66 WLAN / Fast Ethernet / RS485 / Sigen CommM	reverse polarity protection, Insulation monitoring, Residual cu fault circuit interrupter ² , AC overcurrent/overvoltage/short- Type II DC/AC surge protection, Anti-islanding prote 700 / 300 / 245 18 -40 ~ 70 -30 ~ 60 0% ~ 95% 4000 Natural convection IP66 WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2	reverse polarity protection, Insulation monitoring, Residual current monitor fault circuit interrupter ² , AC overcurrent/overvoltage/short-circuit protect Type II DC/AC surge protection, Anti-islanding protection 700 / 300 / 245 18 -40 ~ 70 -30 ~ 60 0% ~ 95% 4000 Natural convection

1. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Energy Controller and Sigen Battery. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Energy Controller is higher than the total power of the home loads.

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 in the Sigenergy website.

Sigen Energy 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	Uni
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		De			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					Д
Max. short-circuit current per MPPT					20					Д
AC Output (on-grid)										
Nominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	V
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	V
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	Д
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	ļ
Nominal output voltage					380 / 400					١
Nominal grid frequency					50 / 60			201		Н
Power factor				0.8 lea	ding ~ 0.8 l	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%	
AC Output (backup)		-	-					-		
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	V
Nominal output voltage	,		12000		380 / 400		20000			. \
Nominal output frequency					50 / 60					H
Power factor				0.8 lea	ding ~ 0.8 l	laaaina				
Total voltage harmonic distortion					THDv < 2%					
Disruption time of backup switch ¹					0					m
Battery Connection										
Battery module models				Sigen	Stor BAT 5.	.0 / 8.0				
Number of modules per controller					1~6					ро
Battery module voltage range					600 ~ 900					١
Protection										
Safety protection feature		, fault circ	cuit interru	upter ² , A(Insulation C overcurr	ent/over\	/oltage/sl	nort-circu	it protecti	
			Type II DC	/AC surg	e protecti	on, Anti-Is	sianaing p	Siotection		
General Data					- 1 · · ·					
Dimensions (W / H / D)				70	0 / 300 / 2	60		C.N.		m
Weight					36					k
Storage temperature range		-		-	-40 ~ 70	-				°(
Operating temperature range					-30 ~ 60					0(
Relative humidity range					0% ~ 95%					
Max. operating altitude				0.0	4000	line				n
				Sm	art air coo	mng				
System ingress protection rating		14/1 4 5 *	/ Fort File		IP66		Mac (10 /	20/00)		
Communication		WLAN ,	/ Fast Ethe	ernet / RS	485 / Sige	n Comml	MOD (4G/	3G/2G)		
Ohan dan loo a l										
Standard Compliance				,	-2, IEC/EN					

This is an optional feature only supported in certain models, please contact Sigenergy for more information.
 For all standards refer to the certificates category in the Sigenergy website.

Sigen Battery

- Large cell capacity, low voltage & durable
- Multi-layer full battery safety protection
- Visible battery status on mySigen App
- Quick connectors for fast installation
- Al enablement, optimized battery cycle life
- Parallel connections for flexible battery mix

Sigen Battery 5.0 / 8.0 kWh

SigenStor BAT	5.0	8.0	Units
Performance Specification	. Q. 19		
Battery type	LiF	ePO4	
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	~ 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!	ō ~ 60	°C
Operating temperature range	-20) ~ 55	°C
Relative humidity range	5%	~ 95%	
Max. operating altitude	4	000	m
Cooling	Natural	convection	
System ingress protection rating		P66	
Installation method	Floor standing	/ Wall-mounted	
Standard Compliance		3.00	
Standard	IEC/EN 60730-1. UN 38.3. IEC	C/EN 62619, IEC/EN 63056, IEC/EN 620	40

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agavango 🔘	

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
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 ground-

I he data in the table is based on the combination of Sigen mounted installation.

2

IEC/EN 60730-1, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62040





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	1:
DC Charging	
Max. charging power of charging port	12
Max. discharging power of charging port	12
Operation voltage range	o b
Max. operation current	4
Charging interface	
Protection	
Short-circuit protection	
Over / Under voltage protection	
Overload protection	
Over temperature protection	
Reverse polarity protection	
Welded contactor check	
General Data	
Dimensions (W / H / D)	
Weight ²	37 (
Storage temperature range	
Operating temperature range	
Relative humidity range	
Max. operating altitude	
Cooling	
System ingress protection rating	
ntegrated charging cable length ³	
Function	
Authentication	
Application	Bi-direc
Jser interfaces	
Remote function	
Standard Compliance	
Standard ⁵	EN IEC 618

- Sigen EV DC Charging Module needs to be used together with Sigen Energy Controller.
- the exposed cable.
- 4 official website.
- 5. For all standards refer to the certificates category in the Sigenergy website.

2	25	Units
.5	25	kW
.5	25	kW
150 ~ 10	00	V
.0	80	A
CCS2	2	
		·
Support	ed	
Support	red	
Support		
Support	red	
Support	ed	
Support	red	
700 / 270	/ 260	mm
5m cable) / 39 (7.5m c	able) / 41 (10m cable)	kg
-40 ~ 7	70	°C
-30 ~ 6	60	°C
5% ~ 95	5%	
4000		m
Smart air c	ooling	
IP66		
5 / 7.5 /	10	m
RFID card / App / No		
tional V2X operation ⁴ ,	Smart load management	
LED indicator,	App, RFID	
OTA, Remote d	iagnostics	
351-1 EN 61851-23 EN IEC	61851-21-2 ETSLEN 303 645	

351-1, EN 61851-23, EN IEC 61851-21-2, ETSI EN 303 645

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

SIGENEROY

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			6	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		- 69 - 1		2			
Number of PV strings per MPPT				1			
Max. input current per MPPT			1	6			A
Max. short-circuit current per MPPT	-2.		2	20			A
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	A
Nominal output voltage		•	220 / 23	30 / 240			V
Nominal grid frequency				/ 60			Hz
Power factor				~ 0.8 lagging			
Total current harmonic distortion				i < 2%			
Efficiency							
Max. efficiency			98	.0%			
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	
Additional Features						·	
Compatible battery module			SigenStor E	BAT 5.0 / 8.0			
Number of modules per controller			1~	~ 6			pcs
Battery module voltage range			300 -	~ 600			V
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W
Nominal output voltage			220 / 23	30 / 240			V
Protection							
Safety protection feature		erse polarity pro It circuit interru Type II DC	ipter ¹ , AC ove		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			6.9.
Installation method			Wall-m	nounted			
		LAN / Fast Ethe	rnet / RS485 /	Sigen Commi	Mod (4G/3G/2	G)	
Communication	* *						
Communication Standard Compliance							

This is an optional feature only supported in certain models, please contact Sigenergy for more information.
 For all standards refer to the certificates category in the Sigenergy website.

Sigen Hybrid Inverter 5.0-25.0 kW Three Phase

DC Input Max PV power 8000 9600 1800 9200 24000 27200 32000 40000 W Nam DC Input voltage 600 1000 9200 22000 22000 40000 W Nambor DV voltage 600 100 V V V Numbor DV voltage range 100 100 V V Numbor DV voltage range 2 3 4 V Numbor DV voltage parent power 10 A A A Max short-circuit current PMPT 16 A A A Nominal output power 5000 6000 10000 12000 15000 20000 25000 W Max short-circuit current 7.6 91 12.2 152 18.2 2.2 2.8 3.4 41.8 A Mominal output voltage 580 600 8300 1000 1200 1500 1000 2.9 2.8 3.4 41.8 A <td< th=""><th>Sigen Hybrid</th><th>5.0 TP</th><th>6.0 TP</th><th>8.0 TP</th><th>10.0 TP</th><th>12.0 TP</th><th>15.0 TP</th><th>17.0 TP</th><th>20.0 TP</th><th>25.0 TP</th><th>Units</th></td<>	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	Units
Max. DC Input voltage III00 V Nominal DC Input voltage 600 V Start-up voltage range IB0 V Mumber of PV strings per MPPT 1 A Max. short-circuit current per MPPT 16 A Max. short-circuit current per MPPT 1 A Max. short-circuit current per MPPT 16 A Max. cutput topower 5500 6600 8800 10000 17000 20000 25000 W Max. cutput uptower 5500 6600 8800 1800 1700 2000 2500 W Nominal output voltage 9300 / 400 V V V V Nominal output voltage V V Power factor 0.8 leading -0.8 lagging 142 X V V	DC Input										
Max DC input voltage III00 V Nominal DC input voltage 600 V Start-up voltage range 180 V Number of MV strings per MPPT 1 A Number of MV strings per MPPT 1 A Max short-circuit current per MPPT 16 A AC Output (on-grid) 20 A Max output opparant power 5000 6000 8000 10000 17000 20000 25000 W Max output opparant power 5000 6600 8300 10000 17000 20000 25000 W Max output opparant power 5500 6600 8300 1000 13700 2200 V Nominal output voltage V Nominal output voltage V V Nominal output voltage V Nominal output voltage V V Nominal output voltage 0.8 leading - 0.8 lagging Tatal current harmonic distortion THDI < 2%	Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W
Nominal DC input voltage 600 V Start-up voltage 180 V Start-up voltage range 180 V Number of MPP. trackers 2 3 4 Number of MPP. trackers 2 3 4 Max. input current per MPPT 1 A AC Output (on-grid) 20 A Nominal output power 5000 6000 8000 10000 17000 20000 25000 W Nominal output current per MPPT 215.2 18.2 22.8 28.0 A Max. output current 8.4 10.0 13.4 16.7 20.1 25.1 28.4 38.0 A Mominal output voltage 38.0 A 38.0 A Nominal output voltage V Nominal output voltage V Nominal output voltage V Nominal output remet Nominal output voltage V Nominal output remet Nominal output remet Nominal output requency No Nominal output requency Not output curent Nominal output requency	· · · · · · · · · · · · · · · · · · ·					1100					V
Stort-up voltage 180 V MPF1 voltage range 180 - 1000 V MPF1 voltage range 180 - 1000 V Number of PV strings per MPP1 1 A Max input current per MPP1 16 A Max short-circuit current per MPP1 20 A AC Output (on-grid) X X X Max output apparent power 5000 6000 8000 10000 12000 8700 2000 25000 VA Nominal output power 500 6000 8800 1000 12000 1600 17000 2000 25000 VA Nominal output current 76 91 122 152 182 258 304 380 A Max output autrent 84 100 134 167 201 261 284 380 A Max output autrent 84 90 380 48. A V Nominal output voltage V Nominal output voltage V			2.0			600					V
Number of MPR trackers 2 3 4 Number of MPR trackers 2 3 4 Number of V strings per MPPT 1						180					V
Number of PV strings per MPPT 1 A Max. Input current per MPPT 16 A AC Output (on-grid) 20 A Max. short-circuit current per MPPT 20 A AC Output (on-grid) 5000 6000 8000 10000 12000 17000 20000 25000 W Max. short-circuit current per MPPT 560 6600 8600 1000 13200 16500 17000 20000 25000 W Max. output current 8.4 10.0 13.4 16.7 20.1 25.1 28.4 33.4 41.8 A Nominal cutput voltage 380 400 V V Nominal cutput voltage V Nominal cutput voltage 380 98.3% 9	MPPT voltage range	599				160 ~ 1000					V
Max. Input current per MPPT 16 A Max. short: circuit current per MPPT 20 A 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 2.8 3.8.4 41.8 A Nominal output voltage 380 / 400 V V V Nominal grid frequency 50 / 60 Hz V Power factor 0.8 leading - 0.8 leaging Total current harmonic distortion THDI 4 2% Efficiency Max. efficiency 96.3%	Number of MPP. trackers		2			3			4		
Max. short-circuit current per MPPT 20 A AC Output (on-grid) Nominal output power 5000 6000 8000 10000 15000 17000 20000 25000 W Nominal output power 5500 6600 8800 11000 15200 15700 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 drupt voltage 380 / 400 Hz V Nominal drupt voltage V Nominal drupt voltage V Power factor 0.8 leading - 0.8 logging Total current harmonic distortion THDI < 2%	Number of PV strings per MPPT				1	1					
AC Output (on-grid) Nominal output power 5000 6000 8000 10000 12000 15000 17000 20000 25000 W Max output apparent power 5500 6600 8800 10000 15200 16500 18700 22000 27500 VA Max output apparent power 56 91 122 152 182 22.8 28.8 30.4 48.8 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 V Nominal output voltage V V Nominal grid frequency 0.8 leading - 0.8 logging Total current harmonic distortion THDI < 2%	Max. input current per MPPT					16					А
Nominal output power 5000 6000 8000 10000 12000 15000 17000 20000 25000 W Max output apparent power 5500 6600 8800 1000 13200 16500 18700 22000 27500 VA Nominal output aurrent 7.6 9.1 12.2 15.2 18.2 22.8 30.4 38.0 A Max output aurrent 8.4 10.0 13.4 16.7 20.1 25.1 28.4 33.4 41.8 A Nominal output voltage 38.0 160 Hz Power factor V V Nominal grid frequency 0.8 leading - 0.8 logging Total current harmonic distortion THDi < 2%	Max. short-circuit current per MPPT					20					А
Max. output apparent power 5500 6600 9800 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 V V V V Nominal grid frequency 50 / 6.0 Hz V V V V Power factor 0.8 leading - 0.8 logging Total current harmonic distortion Total current harmonic distortion Hz European efficiency 98.1% 98.2% 98.3% 98	AC Output (on-grid)										
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 V V Power factor 0.8 leading - 0.8 legging Total current harmonic distortion THDI < 2%	Nominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	W
Max. output current 84 10.0 13.4 16.7 20.1 25.1 28.4 33.4 41.8 A Nominal output voltage 380 / 400 V V V Nominal grid frequency 50 / 60 Hz Power factor 0.8 leading - 0.8 lagging Total current harmonic distortion THD < 2%	Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	VA
Nominal output voltage 380 / 400 V Nominal grid frequency 50 / 60 Hz Power factor 0.8 leading - 0.8 lagging Total current harmonic distortion Hz Efficiency 0.8 leading - 0.8 lagging Total current harmonic distortion THDI < 2%	Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	А
Nominal grid frequency 50 / 60 Hz Power factor 0.8 leading - 0.8 lagging Italian - 0.8 lagging Italian - 0.8 lagging Total current harmonic distortion THDi < 2%	Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	А
Power factor 0.8 leading - 0.8 lagging Total current harmonic distortion THDi < 2%	Nominal output voltage					380 / 400					V
Total current harmonic distortion THDi < 2% Efficiency Max. efficiency 98.1% 98.2% 98.3% 98	Nominal grid frequency					50 / 60			- 29		Hz
Efficiency 98.1% 98.2% 98.3%	Power factor				0.8 lead	ding ~ 0.8 l	lagging				
Max. efficiency 98.1% 98.2% 98.3%	Total current harmonic distortion					THDi < 2%		-2.2			
European efficiency 96.1% 96.8% 97.1% 97.5% 97.9% 97.9% 97.9% 97.9% 98.0% Additional Features SigenStor BAT 5.0 / 8.0 Number of modules per controller 1 ~ 6 pcs Battery module voltage range 600 ~ 900 V Peck output power (10 seconds) 7500 9000 12000 15000 22500 25500 30000 W Nominal output voltage 380 / 400 V Peck output power (10 seconds) 7500 9000 12000 15000 18000 22500 25500 30000 W Nominal output voltage 380 / 400 V Protection V Protection V Safety protection feature DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection Mm Dimensions (W / H / D) 700 / 300 / 283 mm Mc Weight 36 kg Storage temperature range -30 - 60 °C Operating attitude 4000	Efficiency										
Additional Features Compatible battery module SigenStor 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 18000 22500 25500 30000 3000 W Nomial output voltage 380 / 400 V V Protection V Safety protection feature DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection General Data Dimensions (W / H / D) 700 / 300 / 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 Smart air cooling Ingress protection rating IP66 Ingress protection rating IP68 Installation method WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) Standard Compliance Standard Compliance <td>Max. efficiency</td> <td>98.1%</td> <td>98.2%</td> <td>98.3%</td> <td>98.3%</td> <td>98.3%</td> <td>98.3%</td> <td>98.3%</td> <td>98.3%</td> <td>98.3%</td> <td></td>	Max. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	
Compatible battery moduleSigenStor BAT 5.0 / 8.0Number of modules per controller1 ~ 6pcsBattery module voltage range600 ~ 900VPeak output power (10 seconds)7500900012000150001800022500255003000030000WNominal output voltage380 / 400VProtectionDC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protectionGeneral DataDimensions (W / H / D)700 / 300 / 283mmWeight36kgStorage temperature range-40 ~ 70°COperating temperature range0% ~ 95%Max. operating altitude4000Max. operating altitude4000mCoolingSmart air coolingIngress protection ratingIP66Installation methodWall-mountedCommunicationWLN / Fast Ethernet / RS485 / Sigen ComMod (4G/3G/2G)Standard Compliance	European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	
Number of modules per controller 1~6 pcs Battery module voltage range 600~900 V Peak output power (10 seconds) 7500 9000 12000 18000 22500 25500 30000 W Nominal output voltage 380 / 400 V V Protection V Protection DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection Mmm General Data Dimensions (W / H / D) 700 / 300 / 283 mm Weight 36 kg Storage temperature range -40 - 70 °C Operating temperature range -30 - 60 °C Relative humidity range °C Max operating altitude 4000 m Cooling m Ingress protection rating IP66 Installation method V Installation method WuAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) Standard Compliance	Additional Features										
Battery module voltage range 600 ~ 900 V Peak output power (10 seconds) 7500 9000 12000 15000 18000 22500 25500 30000 W Nominal output voltage 380 / 400 V Protection V Safety protection feature DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection General Data 36 kg Dimensions (W / H / D) 700 / 300 / 283 mm Meight 36 kg Storage temperature range -40 - 70 °C </td <td>Compatible battery module</td> <td></td> <td></td> <td></td> <td>Sigens</td> <td>Stor BAT 5.</td> <td>.0 / 8.0</td> <td></td> <td></td> <td></td> <td></td>	Compatible battery module				Sigens	Stor BAT 5.	.0 / 8.0				
Peak output power (10 seconds) 7500 9000 12000 15000 18000 22500 25500 30000 W Nominal output voltage 380 / 400 V Protection DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection General Data Dimensions (W / H / D) 700 / 300 / 283 mm Weight 36 kg Storage temperature range -40 ~ 70 °C Operating temperature range 0% ~ 95% mm Max operating altitude 4000 m Cooling Smart air cooling Ingress protection rating IP66 Installation method Wall-mounted Communication Wall-mounted Communication WLAN / Fast Ethernet / RS485 / Sigen CommMod (46/36/2G) Standard Compliance	Number of modules per controller			0.161		1~6					pcs
Nominal output voltage 380 / 400 V Protection DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection General Data Dimensions (W / H / D) 700 / 300 / 283 mm Weight 36 kg Storage temperature range -40 ~ 70 °C Operating temperature range -30 ~ 60 °C Relative humidity range 0% ~ 95% mn Max. operating altitude 4000 m Cooling Smart air cooling Installation method Installation method Wall-mounted Communication Standard Compliance Standard Compliance Standard Compliance	Battery module voltage range		- 10	-		600 ~ 900					V
Protection Safety protection feature DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection General Data Dimensions (W / H / D) 700 / 300 / 283 mm Weight 36 kg Storage temperature range -40 ~ 70 °C Operating temperature range -30 ~ 60 °C Relative humidity range 0% ~ 95% mn Max. operating altitude 4000 m Cooling Smart air cooling Ingress protection rating Ingress protection rating IP66 Installation method Communication WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) Standard Compliance	Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W
DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection General Data Dimensions (W / H / D) 700 / 300 / 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 Ingress protection rating IP66 Installation method Wall-mounted Standard Compliance WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) Standard Compliance	Nominal output voltage	_		-	-	380 / 400					V
Safety protection feature Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection General Data Dimensions (W / H / D) 700 / 300 / 283 mm Weight 36 kg Storage temperature range -40 ~ 70 °C Operating temperature range -30 ~ 60 °C Relative humidity range 0% ~ 95% mm Max. operating altitude 4000 m Cooling Smart air cooling Installation method Installation method Wall-mounted Communication Standard Compliance Standard Compliance Standard Compliance	Protection										
Dimensions (W / H / D)700 / 300 / 283mmWeight36kgStorage temperature range-40 ~ 70°COperating temperature range-30 ~ 60°CRelative humidity range0% ~ 95%°CMax. operating altitude4000mCoolingSmart air coolingIngress protection ratingIP66Installation methodWall-mountedCommunicationWLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)Standard Compliance	Safety protection feature			cuit interr	upter ¹ , AC	overcurre	ent/overv	oltage/sh	nort-circui	t protectio	
Weight36kgStorage temperature range-40 ~ 70°COperating temperature range-30 ~ 60°CRelative humidity range0% ~ 95%°CMax. operating altitude4000mCoolingSmart air coolingIngress protection ratingIP66Installation methodWall-mountedCommunicationWLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)Standard Compliance	General Data										
Storage temperature range-40 ~ 70°COperating temperature range-30 ~ 60°CRelative humidity range0% ~ 95%°CMax. operating altitude4000mCoolingSmart air coolingIngress protection ratingIP66Installation methodWall-mountedCommunicationWLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)Standard Compliance	Dimensions (W / H / D)				70	0 / 300 / 2	283				mm
Operating temperature range -30 ~ 60 °C Relative humidity range 0% ~ 95% Max. operating altitude 4000 m Cooling Smart air cooling Ingress protection rating IP66 Installation method Wall-mounted Communication WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) Standard Compliance Standard Compliance	Weight					36					kg
Relative humidity range0% ~ 95%Max. operating altitude4000mCoolingSmart air coolingIngress protection ratingIP66Installation methodWall-mountedCommunicationWLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)Standard Compliance	Storage temperature range					-40 ~ 70					°C
Max. operating altitude 4000 m Cooling Smart air cooling Ingress protection rating IP66 Installation method Wall-mounted Communication WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) Standard Compliance	Operating temperature range					-30 ~ 60					°C
Cooling Smart air cooling Ingress protection rating IP66 Installation method Wall-mounted Communication WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) Standard Compliance Standard Compliance	Relative humidity range					0% ~ 95%			_		
Ingress protection rating IP66 Installation method Wall-mounted Communication WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) Standard Compliance	Max. operating altitude					4000			1.1.1		m
Installation method Wall-mounted Communication WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) Standard Compliance	Cooling				Smo	art air coc	oling				
Communication WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) Standard Compliance Vector	Ingress protection rating					IP66		C. Der			
Standard Compliance	Installation method				W	all-mount	ed				
	Communication		WLAN	/ Fast Eth	ernet / RS4	485 / Sige		/od (4G/3	3G/2G)		
Standard ² IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2	Standard Compliance										
	Standard ²		IEC/EN 6	2109-1, IEC	/EN 62109	-2, IEC/EN	61000-6-	1, IEC/EN 6	1000-6-2		

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



SIGENERGY

- 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

•						<u></u>	
Sigen PV Max	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Uni
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	0			V
MPPT voltage range			50 ~	550			V
Number of MPP. trackers		6.9.5	2	2			
Number of PV strings per MPPT			1				_
Max. input current per MPPT			16	3			A
Max. short-circuit current per MPPT			20	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	A
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	A
Nominal output voltage			220 / 23	80 / 240			V
Nominal grid frequency			50 /	60			H
Power factor			0.8 leading ~	0.8 lagging			
Total current harmonic distortion			THDi				
Efficiency							
Max. efficiency			98.	0%			
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	
Protection					2.2		
Safety protection feature	DC reve Arc faul	t circuit interru	otection, Insulo Ipter ¹ , AC over /AC surge pro	current/overv	ng, Residual c oltage/short- slanding prote	circuit protec	ring, tion.
		71	nie sange pro		Q .		
General Data		/1	///o odigo pro				
		71	700 / 30				mr
Dimensions (W / H / D)				00 / 268			
Dimensions (W / H / D) Weight			700 / 30	00 / 268 3			kç
Dimensions (W / H / D) Weight Storage temperature range			700 / 30	00 / 268 3 ~ 70			kç °C
Dimensions (W / H / D) Weight Storage temperature range Operating temperature range			700 / 30 18 -40	00 / 268 3 ~ 70 ~ 60			mr kç °C
Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range			700 / 30 18 -40 -30	00 / 268 3 ~ 70 ~ 60 95%			kç °C °C
Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range Max. operating altitude			700 / 30 18 -40 -30 0% ~	00 / 268 3 ~ 70 ~ 60 95% 00			kç °C
Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range Max. operating altitude Cooling			700 / 30 18 -40 -30 0% ~ 40	00 / 268 3 ~ 70 ~ 60 95% 00 ponvection			kر ٥ ٥
General Data Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range Max. operating altitude Cooling Ingress protection rating Installation method			700 / 30 18 -40 -30 0% ~ 40 Natural co	00 / 268 3 ~ 70 ~ 60 95% 00 00 00 00 00 00 00 00 00 00 00 00 00			kç °C °C

IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/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		2. K			600					V
Start-up voltage					180					V
MPPT voltage range	5				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										
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
Nominal output voltage					380 / 400				126	V
Nominal grid frequency					50/60			- 200		Hz
Power factor				0.8 lead	ding ~ 0.8	lagging				
Total current harmonic distortion					THDi < 2%		2.5			
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										
		rovoroou								
Safety protection feature		c fault cire	cuit interru		overcurr	ent/overv	oltage/sh	ort-circuit	monitorir t protectic	
Safety protection feature General Data		c fault cire	cuit interru	upter ¹ , AC	overcurr	ent/overv	oltage/sh	ort-circuit		
General Data		c fault cire	cuit interru	upter ¹ , AC C/AC surg	overcurr	ent/overv on, Anti-is	oltage/sh	ort-circuit		
		c fault cire	cuit interru	upter ¹ , AC C/AC surg	overcurre e protecti	ent/overv on, Anti-is	oltage/sh	ort-circuit		m. mm
General Data Dimensions (W / H / D)		c fault cire	cuit interru	upter ¹ , AC C/AC surg	covercurr e protecti 0 / 300 / 2	ent/overv on, Anti-is	oltage/sh	ort-circuit		n.
General Data Dimensions (W / H / D) Weight		c fault cire	cuit interru	upter ¹ , AC C/AC surg	covercurre e protecti 0 / 300 / 2 36	ent/overv on, Anti-is	oltage/sh	ort-circuit		m. mm kg
General Data Dimensions (W / H / D) Weight Storage temperature range		c fault cire	cuit interru	upter ¹ , AC C/AC surg	c overcurre e protecti 0 / 300 / 2 36 -40 ~ 70	ent/overv on, Anti-is	oltage/sh	ort-circuit		n. mm kg °C
General Data Dimensions (W / H / D) Weight Storage temperature range Operating temperature range		c fault cire	cuit interru	upter ¹ , AC C/AC surg	c overcurre e protecti 0 / 300 / 2 36 -40 ~ 70 -30 ~ 60	ent/overv on, Anti-is	oltage/sh	ort-circuit		n. mm kg °C
General Data Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range		c fault cire	cuit interru	upter ¹ , AC C/AC surg 70	c overcurre e protecti 0 / 300 / 2 36 -40 ~ 70 -30 ~ 60 0% ~ 95%	ent/overvo on, Anti-is 283	oltage/sh	ort-circuit		n. mm kg °C °C
General Data Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range Max. operating altitude		c fault cire	cuit interru	upter ¹ , AC C/AC surg 70	c overcurre e protecti 0 / 300 / 2 36 -40 ~ 70 -30 ~ 60 0% ~ 95% 4000	ent/overvo on, Anti-is 283	oltage/sh	ort-circuit		n. mm kg °C °C
General Data Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range Max. operating altitude Cooling		c fault cire	cuit interru	upter ¹ , AC C/AC surg 70	c overcurre e protecti 0 / 300 / 2 36 -40 ~ 70 -30 ~ 60 0% ~ 95% 4000 art air coo	ent/overvo on, Anti-is 283 bling	oltage/sh	ort-circuit		n. mm kg °C °C
General Data Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range Max. operating altitude Cooling Ingress protection rating		c fault cire	cuit interru Type II DC	upter ¹ , AC C/AC surg 70	c overcurre e protecti 0 / 300 / 2 36 -40 ~ 70 -30 ~ 60 0% ~ 95% 4000 art air coo IP66 all-mount	ent/overvo on, Anti-is 283 bling ed	oltage/sh landing p	ort-circuit		n. mm kg °C °C
General Data Dimensions (W / H / D) Weight Storage temperature range Operating temperature range Relative humidity range Max. operating altitude Cooling Ingress protection rating Installation method		c fault cire	cuit interru Type II DC	upter ¹ , AC C/AC surg 70 Smc	c overcurre e protecti 0 / 300 / 2 36 -40 ~ 70 -30 ~ 60 0% ~ 95% 4000 art air coo IP66 all-mount	ent/overvo on, Anti-is 283 bling ed	oltage/sh landing p	ort-circuit		n. mm kg °C °C

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 in the Sigenergy website.

Standard²

- 2. For all standards refer to the certificates category in the Sigenergy website.

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



Sigen Energy Gateway

• 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

Sigen Gateway	HomeMax SP 12K	HomeMax TP 30K	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	A
Nominal AC power	22 / 23 / 24	50 / 52.6	kW
Nominal AC frequency	50 / 60)	Hz
Overvoltage category			
Inverter Connection / EV Cha	irger Port (optional)		10
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	45.6 (INV1), 30.4 (INV2) ³	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	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 (Power derating when >35°C in on-grid mode)		°C
Relative humidity range	0% ~ 95%		
Max. operation altitude	4000 (Power derating when >2000m)		m
Cooling	Natural convection		
Ingress protection rating	IP54		
Communication	Fast Ethernet, RS485, dry contact		
	Wall mour		

- Controller is higher than the total power of the backup loads.
- 2. connected to the INV2/INV3 port.
- 3. For Sigenergy three phase inverter products, the INV1 port supports 17.0-30.0 kW inverter, the INV2 port supports 6.0-20.0 kW inverter.

Preliminary

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

For Sigenergy single phase inverter products, 8.0-12.0 kW inverters should be connected to the INVI port, 3.0-6.0 kW inverters should be

Sigen Communication Module

- IP66 protection rating, more reliable
- Plug & play, easy to use
- Support 2G / 3G / 4G communication

Sigen Communication Module

Connection interface	
Installation type	
Display	
Dimensions (W / H / D)	40-
Weight	
Ingress protection rating	. 22
Power consumption (typical)	De la

	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 ¹	SP-DH
ower Supply	
rid connection type	1P
C input voltage range	176
ominal AC frequency	
lax. operating current	100
leasurement Accuracy	
oltage accuracy	
current accuracy	
ower accuracy	
requency accuracy	
Communication	
iterface	
aud rate	
rotocol	
Seneral Data	
imensions (W / H / D)	36 / 100 / 63
/eight	0.20
torage temperature range	
perating temperature range	
elative humidity range	
ngress protection rating	
nstallation method	
CT Accessory	
umber of CT	/
cable length of CT	4-07
nner diameter of CT	_
leight of CT	-
lax. operating current of CT	-
Standard Compliance	
tandard	

SP-CT120-DH	TP-DH	TP-CT120-DH	Units
2W	3P3	W/3P4W	
276	17	3 ~ 480	Vac
50,	60		Hz
-	100	-	А
0.1	5%		
	5%		
	2%		
0	2.70		
RS4	185		
96			bps
Modb	us RTU	C	
18 / 118 / 64	72 / 100 / 66	72 / 94.5 / 65	mm
0.07	0.32	0.20	kg
-40	~ 85		°C
-30	~ 60		°C
0% ~	90%		
IP	51		
DIN Rail	35 mm		
1	-	3	pcs
1	_	1	m
16	_	16	mm
0.09	_	0.09	kg
120	-	120	А

EN 61010-1:2010, EN 61010-2-030:2010

Sigen EV AC Charger

BIGENERBY



- 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

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

Sigen EV AC Charger 7 / 11 / 22 kW

Sigen EVAC	7	~~?#^	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	De la companya de la	50 / 60		Hz
Vehicle connection	Type 2 connector / Type 2 socket with shutter			
AC input cable width range	2.5 ~ 6.0		mm ²	
Protection				
Integrated DC fault detection ¹		6		mA
Integrated AC fault detection ¹	· · · · · · · · · · · · · · · · · · ·	30		mA
Flame retardant rating		UL94-5VB		
Over / Under voltage protection		Supported		_
Overload protection		Supported		. 0.6
Over temperature protection	Supported			
PEN protection	Supported			
Randomized charging delay	Supported			
Ground fault protection	Supported			
Surge protection	Supported			
Grounding system		TT, TN, IT	26	
User Interface & Communic	ation			
Protocol		RS485, Modbus RTU		
Communication	4G / WLAN / Fast Ethernet			
Authentication	RFID card /	App / Auto-charge (no auth	nentication)	
Display	LED indicator / App			
Charging mode ²	100% PV charging / Solar boost charging / Fast charging			
Metering	External meter with RS485 / Integrated metering IC			
Dynamic load management ³	Supported			
Phase switching	Supported			
General Data				
Dimensions (W / H / D)		234 / 384 / 126		mm
Weight (case B / case C)	4.5 / 6.4		kg	
Storage temperature range	-40 ~ 70		°C	
Operating temperature range	-30 ~ 55			°C
Relative humidity range	5% ~ 95%			
Max. operating altitude	4000		m	
Cooling	Natural convection			
Ingress protection rating	IP65			<u> </u>
Installation method	Wall-mounted			
Application environment		Outdoor / Indoor		
Standby self-consumption		< 3.6		W
Standard charging cable length		5		m
Standard Compliance				

Standard ⁴

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. 2.
- This function needs to be used with Sigen Power Sensor. 3.
- For all standards refer to the certificates category in the Sigenergy website. 4.

EN IEC 61851-1, IEC 62995, EN IEC 61851-21-2, ETSI EN 300 330 V2.1.1, ETSI EN 301 511 V12.5.1, EN IEC 62311, EN50665, ETSI EN 300 328 V2.2.2

mySigen App

Intelligent energy management within touches For homeowners

Smarter energy life empowered by mySigen App



Real-time monitoring

Energy data refresh every 10 seconds Visible energy flow & related devices Auto. system network display on App





Provide intelligent optimization suggestions on system mode, battery capacity and energy usage



Discover industry-leading

battery safety features



Fun ambient lighting

Customizable lighting language Add personality to your system



Sigen Al

After-sales engineer Home energy analyst Device mgmt. assistant



Interactive services

Al-integrated service interface Self-diagnosis to identify problems Submit service requests via the App

mySigen App

Intelligent energy management within touches For installers

Simplify your installation process, one App does it all



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Leading the Way in Intelligent Manufacturing



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.

Runs on Solar by Sigenergy solutions for a Sustainable Tomorrow

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

Plant Size

逆 362 kWp 过 3,000 m²

340 kWac

Estimated Annual Generation

🗟 398,200 kWh

Community Contribution per Year

- ▲ 309t CO₂ emission reduced
- 269 equivalent of trees planted



🗟 432 kWh



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.

Spain 16 kW AC output 24 kWh ess capac



