



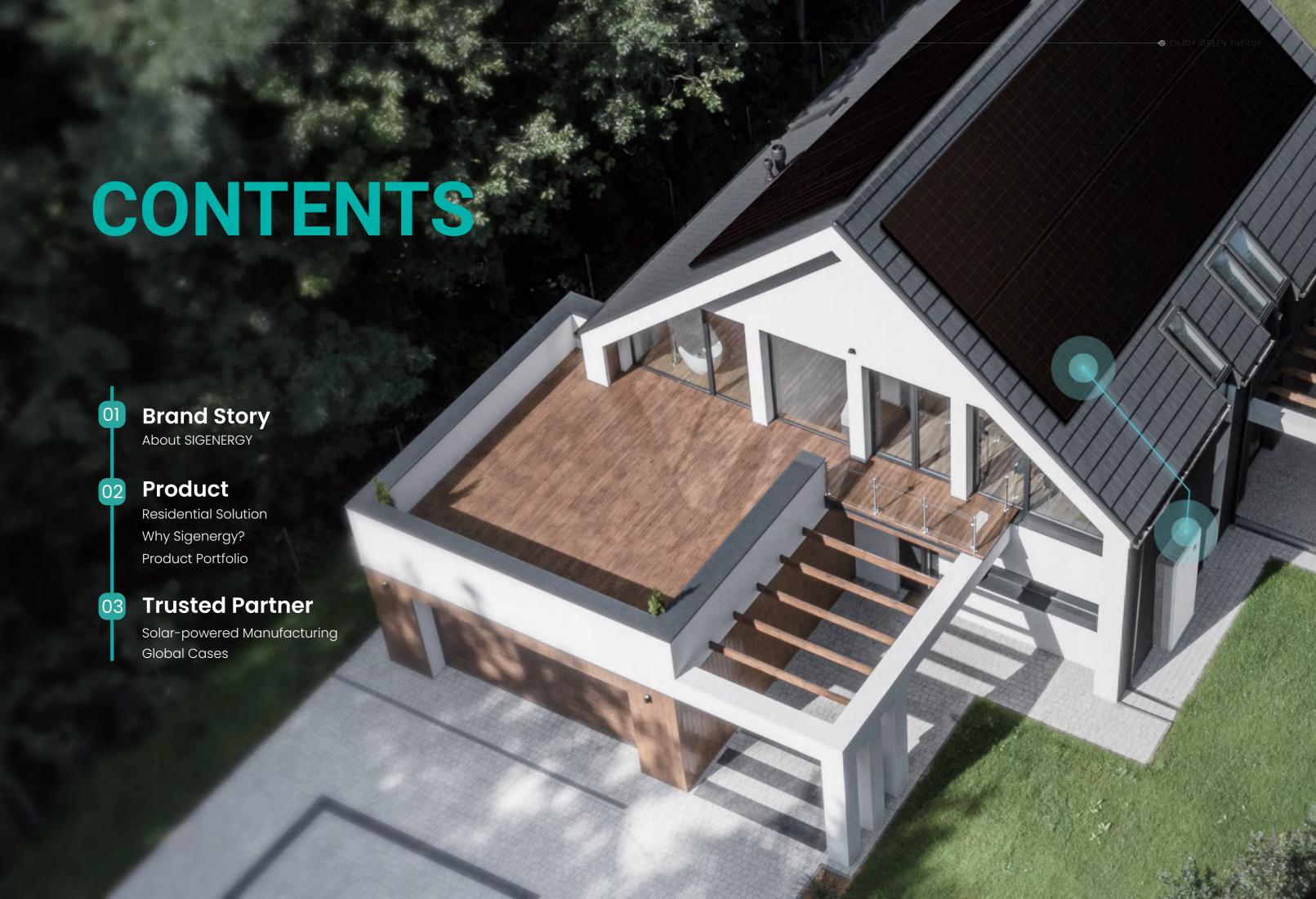
Home Energy Solution

Let the world enjoy green energy





Sigenergy focuses on developing cutting-edge home and business



ABOUT SIGENERGY

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

VISION Enjoy Green Energy

MISSION

Be a distributed energy pioneer.

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

Safe Intelligent Green Efficient New



Sigenergy Home Energy Solutions



5-in-One SigenStor



SigenStor EC

For solar + Energy storage system



SigenStor EVDC

Bi-directional EV charger



SigenStor BAT Modular BESS

Energy Gateway



Sigen Gateway HomePro

Powerful home energy hub

Micro Inverter



SigenMicro Inverter

Ideal for rooftop and balcony solar

Hybrid Inverter



Sigen Hybrid Inverter

Efficient & elegant



SigenStor BC

Connect Sigen Battery to Sigen Hybrid Inverter



SigenStor BAT Modular BESS

EV AC Charger



EVAC Charger

Power drives with smart energy

App & Cloud



Sigen Cloud

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



mySigen App

Intelligent energy mgmt.



01 Visualize Every Ray of Energy

Track energy flow with precision—from power generation to consumption. Gain clear insights into your battery's green energy composition, ensuring transparency and efficiency in every charge.

System-level Know every watt's source and destination

Load-level See the power source behind every watt



Why Sigenergy? —

02 Let Al Power Your Energy Freedom

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



Why Sigenergy?

03 Safety Guard Always Reliable

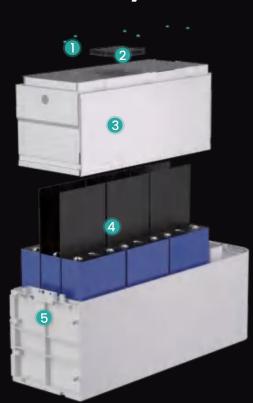
Sigen Battery uses high-reliable LFP cells and features industry-leading protections. Offering 10,000 life cycles* and superior safety. Setting a new benchmark for battery safety.

04 Goodbye to Power Outage

Load-side disruption

Sigenergy provides the ultimate backup solution. Our patented power control algorithm enables seamless switching among multiple energy, with robust off-grid performance for your home.

5 Layers Battery Safety Protection



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



Real-time monitoring of battery status on

mySigen APP

*This is provided by the battery cell manufacturer. Based on cell test condition of 25±2°C, 0.5C charge and discharge rate and SOH=60%.

V2G

Why Sigenergy?

05 Innovative DC-Coupled Architecture

Direct DC bus connection among PV, ESS and EV chargers boosts system efficiency and power density. With a smart battery optimizer for each pack, it supports mixed use of new/old batteries and active balancing.



DC BUS

Patented architecture

Optimizer for each battery

Mixed use of new/old batteries

Why Sigenergy?

06 V2X Pioneering the Future

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





n to discover tested EVs



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

Sigen Energy Controller

3.0 - 12.0 kW

Single Phase

5.0 - 30.0 kW

Three Phase

5.0 - 12.0 kW

Three Phase Low Voltage



Sigen Energy Controller 3.0-12.0 kW Single Phase 1

SigenStor EC	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	8.0 SP	10.0 SP	12.0 SP	Unit
DC Input (from PV)										
Max. PV power	6000	7360	8000	9200	10000	12000	16000	20000	24000	W
Max. DC input voltage					600					V
Nominal DC input voltage					350					V
Start-up voltage					100					V
MPPT voltage range					50 ~ 550					V
Number of MPP. trackers			:	2			3	4	4	
Number of PV strings per MPPT					1					
Max. input current per MPPT					16					Α
Max. short-circuit current per MPPT					20					А
AC Output (on-grid)										
Nominal output power	3000	3680	4000	4600	5000	6000	8000	10000	12000	W
Max. output apparent power	3300	3680	4400	5000	5500	6600	8800	11000	12000	VA
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	36.4	45.5	54.6	Α
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	40.0	50.0	54.6	Α
Nominal output voltage			220 / 23	30 / 240				220 / 230		V
Nominal grid frequency					50 / 60					Hz
Power factor				0.8 lead	ding ~ 0.8	lagging				
Total current harmonic distortion					THDi < 2%					
Efficiency										
Max. efficiency	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	97.6%	97.6%	97.6%	
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	97.0%	97.0%	97.0%	
AC Output (backup)										
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	12000	15000	15000	W
Nominal output voltage			220 / 23	30 / 240				220 / 230		V
Nominal output frequency					50 / 60					Hz
Power factor				0.8 lead	ding ~ 0.8	lagging				
Total voltage harmonic distortion					THDv < 2%	,			,	
Disruption time of backup switch ²					0					ms
Battery Connection										
Battery module models				Siger	Stor BAT	series				
Number of modules per controller					1~6					pcs
Battery module voltage range					300 ~ 600)				V
Protection										
Safety protection feature	DC Arc	fault circ	uit interru	upter ³ , AC	overcurr	ent/overv	/oltage/sl	ual curren hort-circu protection	it protecti	ng, on.
General Data										
Dimensions (W / H / D)			700 / 30	00 / 245			70	0 / 300 / 2	160	mm
Weight			1	8				36		kg
Storage temperature range					-40 ~ 70					°C
Operating temperature range					-30 ~ 60					°C

700 / 300 / 245	700 / 300 / 260	mm					
18	36	kg					
-40 ~ 70		°C					
-30 ~ 60		°C					
0% ~ 100%							
4000							
Natural convection	Smart air cooling						
IP66							
WLAN / Fast Ethernet / RS485 / Sigen Com	mMod (4G/3G/2G)						
IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2							
	18 -40 ~ 70 -30 ~ 60 0% ~ 100% 4000 Natural convection IP66 WLAN / Fast Ethernet / RS485 / Sigen Comm	18 36 -40 ~ 70 -30 ~ 60 0% ~ 100% 4000 Natural convection Smart air cooling IP66 WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)					

- 1. Sigen Energy Controller 8.0-12.0 kW Single Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.
- 2. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Energy Controller and Sigen Battery.

 Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Energy Controller is higher than the total power of the home loads.
- 3. This is an optional feature only supported in certain models, please contact Sigenergy for more information.
- 4. For all standards refer to the certificates category on the Sigenergy website.

Sigen Energy Controller 5.0-30.0 kW Three Phase 1

SigenStor EC	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	30.0 TP	Units
DC Input (from PV)				•				•			
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	48000	W
Max. DC input voltage					110	00					V
Nominal DC input voltage					6	00					V
Start-up voltage					18	30					V
MPPT voltage range					160 ~	1000					V
Number of MPP. trackers		2			3				4		
Number of PV strings per MPPT				ı		1	ı				
Max. input current per MPPT					1	6					А
Max. short-circuit current per MPPT					2	10					А
AC Output (on-grid)											
Nominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	30000	W
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	33000	VA
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	45.5	А
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	50.0	Α
Nominal output voltage				3	80 / 400	3W+N+F	PE				V
Nominal grid frequency					50	/ 60					Hz
Power factor				0.8	leading	- 0.8 lagg	ging				
Total current harmonic distortion						< 2%	<i>y</i>				
Efficiency											
Max. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.4%	
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	98.0%	
AC Output (backup)		00.070	07.170	07.070	07.770	07.070	07.070	07.070	00.070	00.070	
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	36000	W
Nominal output voltage	7500	9000	12000			. 3W+N+F		30000	30000	30000	V
Nominal output frequency						/ 60					Hz
Power factor				0.8		~ 0.8 lagg	nina				112
Total voltage harmonic distortion				0.0		/ < 2%	31119				
Disruption time of backup switch ²						0					ms
Battery Connection						<u> </u>					1113
<u> </u>					: Ot	DAT					
Battery module models				S		BAT serie	9S				
Number of modules per controller						- 6					pcs
Battery module voltage range					600	~ 900					V
Protection											
Safety protection feature			ircuit inte	errupter ³	³ , AC ove	rcurrent	overvolt		rt-circuit	monitorir protection	
General Data											
Dimensions (W / H / D)					700 / 3	00 / 260					mm
Weight					3	6					kg
Storage temperature range					-40	~ 70					°C
Operating temperature range					-30	~ 60					°C
Relative humidity range					0% ~	100%					
Max. operating altitude					40	000					m
Cooling	-				Smart a	r cooling					
System ingress protection rating	-				IP	66					
Communication		WLA	N / Fast E	thernet /	RS485 /	Sigen C	ommMo	d (4G/3G	9/2G)	-	
Standard Compliance											
Standard ⁴		IEC/ENI	62109-1	FC/FN 60	2109-2 IF	C/FN 610	00-6-1 1	EC/EN 610	100-6-2		
otariuuru		ILU/EIV	UZ1UJ-1,	LU/LIN UZ	_100 Z, IE	U/ LIN UIU	υυ υ i, li	LO/LIN OIL	,00 U-Z		

- 1. Sigen Energy Controller 30.0 kW Three Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.
- 2. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Energy Controller and Sigen Battery.

 Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Energy Controller is higher than the total power of the home loads.
- 3. This is an optional feature only supported in certain models, please contact Sigenergy for more information.
- 4. For all standards refer to the certificates category on the Sigenergy website.

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

8000	9600	12800 600 360	16000	19200	W
	9600	600	16000	19200	۱۸/
2					VV
2		360			V
2		000			V
2		100			V
2		50 ~ 550			V
	2	3	3	4	
		1			
		16			А
		20			А
5000	6000	8000	10000	12000	W
5500	6600	8800	11000	13200	VA
13.2	15.8	21.0	26.2	31.5	А
14.5	17.4	23.1	28.9	34.7	А
		220 / 230			V
		50 / 60			Hz
	0.8	leading ~ 0.8 lag	ging		
		THDi < 2%			
		98%			
97.3%	97.5%	97.7%	97.8%	97.8%	
	S	igenStor BAT seri	es		
		1 ~ 6			pcs
		300 ~ 600			V
	ircuit interrupter 2	AC overcurrent	/overvoltage/sho	ort-circuit protec	
		700 / 300 / 260			mn
		36			kg
		-40 ~ 70			°C
		-30 ~ 60			°C
		0% ~ 100%			
		4000			m
		Smart air cooling			
		IP66			
WLAI	N / Fast Ethernet /	RS485 / Sigen C	ommMod (4G/30	Э/2G)	
		. 0			
IFC/FN	62109-1 JEC/EN 63	2109-2. IFC/FN 610	000-6-1 IFC/FN 610	000-6-2	
	97.3% DC revers Arc fault c	5500 6600 13.2 15.8 14.5 17.4 0.8 97.3% 97.5% Si DC reverse polarity protect Arc fault circuit interrupter 2 Type II DC/AC s WLAN / Fast Ethernet /	13.2 15.8 21.0 14.5 17.4 23.1 220 / 230 50 / 60 0.8 leading ~ 0.8 lagg THDi < 2% 98% 97.3% 97.5% 97.7% SigenStor BAT serie 1 ~ 6 300 ~ 600 DC reverse polarity protection, Insulation makes and the control of the control	5500 6600 8800 11000 13.2 15.8 21.0 26.2 14.5 17.4 23.1 28.9 220 / 230 50 / 60 0.8 leading ~ 0.8 lagging THDi < 2% 98% 97.3% 97.5% 97.7% 97.8% SigenStor BAT series 1 ~ 6 300 ~ 600 DC reverse polarity protection, Insulation monitoring, Residuc Arc fault circuit interrupter ², AC overcurrent/overvoltage/shc Type II DC/AC surge protection, Anti-islanding pr 700 / 300 / 260 36 -40 ~ 70 -30 ~ 60 0% ~ 100% 4000 Smart air cooling IP66 WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/30)	5500 6600 8800 11000 13200 13.2 15.8 21.0 26.2 31.5 14.5 17.4 23.1 28.9 34.7 220 / 230 50 / 60 0.8 leading ~ 0.8 lagging THDi < 2% 98% 97.3% 97.5% 97.7% 97.8% 97.8% SigenStor BAT series 1 ~ 6 300 ~ 600 DC reverse polarity protection, Insulation monitoring, Residual current monito. Arc fault circuit interrupter ², AC overcurrent/overvoltage/short-circuit protect Type II DC/AC surge protection, Anti-islanding protection 700 / 300 / 260 36 -40 ~ 70 -30 ~ 60 0% ~ 100% 4000 Smart air cooling

ENJOY GREEN ENERGY → SUPPLY OF THE STREET O

^{1.} Sigen Energy Controller Three Phase Low Voltage is only available in specific regions. Please contact Sigenergy or local distributors for details.

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

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

Sigen EV DC **Charging Module**

- World's first V2X-integrated all-in-one home energy system
- 25kW bi-directional charging, rapid replenishment for EVs
- 150V-1000V charging voltage, universal EV compatibility
- IP66 protection rating, maintenance-free, always reliable
- Support 100% green charging, drive with sun power



Sigen EV DC Charging Module

Max. discharging power of charging port 12.5 Operation voltage range 150 ~ 1000 Max. operation current 40 80 Aux. operation current CCS2 Protection Short-circuit protection Supported Over / Under voltage protection Supported Over lemperature protection Supported Over supported Over temperature protection Supported Welded contactor check Supported Dimensions (W / H / D) Weight 2 39 (with 7.5m cable) / 41 (with 10m cable) Storage temperature range -40 ~ 70 Operating temperature range Relative humidity range System ingress protection rating IP66	SigenStor EVDC	21	12	25	Units				
Max discharging power of charging port 12.5 25 kit Operation voltage range 150 - 1000 100 Nax operation current 40 80 80 A A Charging interface CCS2 Protection Short-circuit protection Supported Over / Under voltage protection Supported Over of Under voltage protection Supported Over temperature protection Supported Supported Over temperature protection Supported Over temperature protection Supported Supported Over temperature protection Over temperature protection Supported Over temperature protection over temperature	DC Charging								
Operation voltage range 150 - 1000 1000	Max. charging po	wer of charging port	12.5	25	kW				
Max operation current 40 80 A Charging interface CCS2 Protection Supported Over Under voltage protection Over Under voltage protection Supported Over Under voltage protection Over temperature protection Supported Over demorature protection Supported Over behavior of the supported Welded contactor check Supported Dimensions (W H D) T00 270 280 make yearse polarity protection Supported Weight 2 39 (with 7.5m cable) 41 (with 10m cable) k Storage temperature range A-40 70 Operating temperature range A-30 - 60 Relative humidity range System ingress protection rating Integrated charging cable length 3 T,5 10 Tunction Authentication RFID card App No authentication RFID card App No authentication Function Scheduled Charging The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with as the function of prioritizing savel as Grid Charging, Moreover, it has the function of prioritizing savel as Grid Charging, Moreover, it has the function of prioritizing savel sets the charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces Remote function OTA, Remote diagnostics OCPP 16J ED 2 Standard Compliance	Max. discharging	power of charging port	12.5	25	kW				
Charging Interface CCS2	Operation voltage	e range	150 ~	1000	V				
Protection Short-circuit protection Supported Over / Under voltage protection Supported Over / Under voltage protection Supported Over consider the protection Supported Over consider the protection Supported Reverse polarity protection Supported Redeated Consider Supported Recental Data Dimensions (W H D) 700 270 280 mm Weight 2 39 (with 7.5m cable) / 41 (with 10m cable) k Storage temperature range -40 - 70 mm Recentive humidity range 5% - 96% Recentive humidity range 5% - 96% Recenting a thitude 4000 mm Recenting a Smart air cooling System ingress protection rating 1P66 Integrated charging cable length 3 7.5 / 10 mm Function Authentication RFID card / App / No authentication RFID card / App / No authentication The system supports setting the charging start times The system supports setting the charging start times The system supports setting the charging start times The system supports setting with cut-off ScO esting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces Eb Indicator, App, RFID Remote function OTA, Remote diagnosits OCPP Inductor OCPP Inductor	Max. operation cu	urrent	40	80	А				
Short-circuit protection Supported Over / Under voltage protection Supported Over / Under voltage protection Supported Over comperature protection Supported Over temperature protection Supported Reverse polarity protection Supported Welded contactor check Supported General Data Dimensions (W / H / D) 700 / 270 / 280 mm Weight 2 39 (with 7.5m cable) / 41 (with 10m cable) k Storage temperature range -40 - 70 % Relative humidity range 5% - 95% Max. operating altitude 4000 mm Cooling Smart air cooling System ingress protection rating integrated charging cable length 3 7.5 / 10 mm Function Authentication RFID card / App / No authentication The system supports setting the charging start times The system was PV surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging, Moreover, it has the function of prioritizing Surplus PV power. The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application User interfaces EED indicator, App, RRID OTA, Remote diagnostics OCPP 16J ED 2 Standard Compliance	Charging interfac	ce	CC	CS2					
Over / Under voltage protection Supported Over load protection Supported Over temperature protection Supported Reverse polarity protection Supported Welded contactor check Supported Welded contactor check Supported General Data Dimensions (W H D) 700 270 260 mm Weight 3 39 (with 7.5m cable) Al (with 10m cable) k Storage temperature range -40 - 70 mm Operating temperature range -30 - 60 mm Relative humidity range 5% - 95% Max operating allitude 4000 mm Cooling Smart air cooling System ingress protection rating 1P66 Integrated charging cable length 3 7.5 / 10 mm Function Authentication RFID card / App / No authentication The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports setting the charging start times The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. The system of your powers and also supports addition all Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User Interfaces LED indicator, App, RFID Remote function OTA, Remote diagnostics OCPP protocol OCPP 1.6 J ED 2 Standard Compliance	Protection								
Overload protection Supported Over temperature protection Supported Reverse polarity protection Supported Reverse polarity protection Supported Welded contactor check Supported General Data Dimensions (W H D) 700 270 280 m Weight 2 39 (with 7.5m cable) /4 (with 10m cable) k Storage temperature range -40 - 70 m Queroting temperature range -30 - 60 m Relative humidity range 5% - 95% Max operating altitude 4000 m Cooling Smart air cooling System ingress protection rating 1P66 Integrated charging cable length 3 7.5 / 10 m Function Authentication RFID card App No authentication Scheduled Charging The system supports setting the charging start times The system supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging Moreover, it has the function of prioritizing Surplus PV power. Fast Charging PV Surplus Charging The system days opener from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces LED indicator, App, RFID Remote function OTA, Remote diagnostics OCPP protocol OCPP 1.6J ED 2 Standard Compliance	Short-circuit prot	ection	Supp	orted					
Over temperature protection Reverse polarity protection Supported Welded contactor check Supported Welded contactor check Supported Weight 2 Storage temperature range Operating temperature range	Over / Under volto	age protection	Supp	orted					
Reverse polarity protection Welded contactor check Supported General Data Dimensions (W / H / D) T00 / 270 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H / D) T10 / 280 messions (W / H /	Overload protect	ion	Supp	orted					
Welded contactor check General Data Dimensions (W H D) 700 270 260 m Weight 2 39 (with 7.5m cable) 41 (with 10m cable) k Storage temperature range -40 - 70 % Operating temperature range -50 - 60 % Relative humidity range 5% - 95% Max. operating altitude 4000 m Cooling Smart air cooling System ingress protection rating IP66 Integrated charging cable length 3 7.5 10 m Function Authentication RFID card App No authentication The system supports setting the charging start times The system supports setting the charging start times The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces Remote function OTA, Remote diagnostics OCPP Inotocol Standard Compliance	Over temperature	e protection	Supp	orted					
Dimensions (W / H / D) Weight 2 39 (with 7.5m cable) / 41 (with 10m cable) Storage temperature range -40 - 70 Operating temperature range -30 - 60 Relative humidity range 5% - 95% Max. operating altitude 4000 Cooling Smart air cooling System ingress protection rating Integrated charging cable length 3 7.5 / 10 The system supports setting the charging start times Function Authentication RFID card / App / No authentication RFID card / App / No authentication The system supports setting the charging start times The system supports setting the charging start times The system supports setting the charging start times The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging, Moreover, it has the function of prioritizing Surplus PV power. The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces RED indicator, App, RFID OTA, Remote diagnostics OCPP 1.6J ED 2 Standard Compliance	Reverse polarity p	protection	Supp	orted					
Dimensions (W / H / D) Polymensions (W / H / D) Weight 2 39 (with 7.5m cable) / 41 (with 10m cable) k Storage temperature range -40 ~ 70 Operating temperature range -30 ~ 60 Relative humidity range Belative humidity range System ingress protection rating Integrated charging cable length 3 The system supports setting the charging start times The system supports setting the charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces REFID card / App / No authentication The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces LED indicator, App, RFID Remote function OCPP I.6J ED 2 Standard Compliance	Welded contacto	or check	Supp	orted					
Weight 2 39 (with 7.5m cable) / 41 (with 10m cable) k Storage temperature range	General Date	a							
Storage temperature range -40 ~ 70 equal compliance -40 ~ 95 equal compliance -40 ~ 70 ~ 95 equal compliance -40 ~ 95 equal complianc	Dimensions (W /	H / D)	700 / 27	70 / 260	mm				
Operating temperature range	Weight ²		39 (with 7.5m cable)						
Relative humidity range 5% ~ 95% Max. operating altitude 4000 n Cooling Smart air cooling System ingress protection rating IP66 Integrated charging cable length 3 7.5 / 10 n Function Authentication RFID card / App / No authentication Scheduled Charging The system supports setting the charging start times PV Surplus Charging It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. Fast Charging The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces LED indicator, App, RFID Remote function OTA, Remote diagnostics OCPP protocol OCPP 1.6J ED 2 Standard Compliance	Storage tempera	ture range	-40 ~ 70						
Max. operating altitude 4000 not cooling Smart air cooling System ingress protection rating IP66 Integrated charging cable length 3 7.5 / 10 not purpose of the protection state of the protection of prioritizing of the protection of prioritizing surplus PV power. Application Bi-directional V2X operation 4, Smart load management of the protection of the protection of protection of the pro	Operating tempe	erature range	-30 ~ 60						
System ingress protection rating IP66 Integrated charging cable length 3 7.5 / 10 no Function Authentication RFID card / App / No authentication Scheduled Charging The system supports setting the charging start times The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. Fast Charging The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces LED indicator, App, RFID Remote function OTA, Remote diagnostics OCPP protocol OCPP 1.6J ED 2 Standard Compliance	Relative humidity	range	5% ~	95%					
System ingress protection rating IP66 Integrated charging cable length ³ 7.5 / 10 n Function Authentication RFID card / App / No authentication Scheduled Charging The system supports setting the charging start times The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. Fast Charging The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation ⁴ , Smart load management User interfaces LED indicator, App, RFID Remote function OTA, Remote diagnostics OCPP protocol OCPP 1.6J ED 2 Standard Compliance	Max. operating al	titude	4000						
Integrated charging cable length 3 Total Charging Scheduled Charging Scheduled Charging Function Scheduled Charging For Surplus Charging Smart Charging Smart Charging Smart Charging Fast Charging Application Application Bi-directional V2X operation 4, Smart load management User interfaces RFID card / App / No authentication RFID card / App / No authentication The system supports setting the charging start times The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces LED indicator, App, RFID Remote function OTA, Remote diagnostics OCPP I.6J ED 2 Standard Compliance	Cooling		Smart ai	r cooling					
Function Authentication RFID card / App / No authentication Scheduled Charging The system supports setting the charging start times The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. Fast Charging The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces LED indicator, App, RFID Remote function OTA, Remote diagnostics OCPP protocol OCPP 1.6J ED 2 Standard Compliance	System ingress p	rotection rating	IPI	66					
Authentication RFID card / App / No authentication Scheduled Charging The system supports setting the charging start times The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. Fast Charging The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces LED indicator, App, RFID OTA, Remote diagnostics OCPP protocol OCPP 1.6J ED 2 Standard Compliance	Integrated charg	ing cable length ³	7.5	/ 10	m				
Scheduled Charging The system supports setting the charging start times The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces LED indicator, App, RFID Remote function OTA, Remote diagnostics OCPP protocol OCPP 1.6J ED 2 Standard Compliance	Function								
The system uses PV Surplus to charge EVs, enabling 100% green power. It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces LED indicator, App, RFID Remote function OTA, Remote diagnostics OCPP protocol Standard Compliance	Authentication		RFID card / App /	No authentication					
Smart Charging PV Surplus Charging It also supports Battery Boost Charging with cut - off SOC setting, as well as Grid Charging. Moreover, it has the function of prioritizing Surplus PV power. The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging. Application Bi-directional V2X operation 4, Smart load management User interfaces LED indicator, App, RFID OTA, Remote diagnostics OCPP protocol OCPP 1.6J ED 2 Standard Compliance		Scheduled Charging	The system supports settir	ng the charging start times					
Application Bi-directional V2X operation ⁴ , Smart load management User interfaces LED indicator, App, RFID Remote function OTA, Remote diagnostics OCPP protocol OCPP 1.6J ED 2 Standard Compliance	Smart Charging	PV Surplus Charging	It also supports Battery Boost Charging	with cut - off SOC setting, as well as Grid					
User interfaces Remote function OTA, Remote diagnostics OCPP protocol OCPP 1.6J ED 2 Standard Compliance		Fast Charging	, ,	,					
Remote function OTA, Remote diagnostics OCPP protocol OCPP 1.6J ED 2 Standard Compliance	Application		Bi-directional V2X operation	⁴ , Smart load management					
OCPP protocol OCPP 1.6J ED 2 Standard Compliance	User interfaces		LED indicate	or, App, RFID					
Standard Compliance	Remote function		OTA, Remote	diagnostics					
	OCPP protocol		OCPP 1.	6J ED 2					
Standard ⁵ EN IEC 61851-1. FN 61851-23. FN IEC 61851-21-2. FTSI FN 303 645	Standard Co	ompliance							
			EN IEC 61851-1, EN 61851-23. FN	IEC 61851-21-2, ETSI EN 303 645					

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

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

Sigen Battery

- Premium 314Ah cells with 10,000 cycles, long-lasting & reliable
- 5-layer battery safety protection to define the safety standard
- Battery optimizer inside, mix old and new, upgrade with ease



Sigen Battery 6.0 / 10.0

Operating voltage range (Single Phase)

Operating voltage range (Three Phase)

Dimensions (W / H / D)

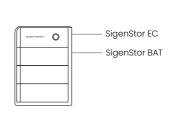
Compatible battery

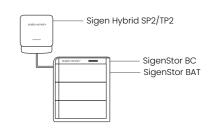
Compatible inverter

Communication

Preliminary

SigenStor BAT	6.0	10.0	Units
Performance Specification			
Battery type	LiFeF	04	
Cell capacity	314	4	Ah
Cycle life ¹	1000	00	
Total energy capacity	6.02	9.04	kWh
Usable energy capacity ²	5.84	8.76	kWh
Depth of discharge ³	100)%	
Max. charge / discharge power	3000	4600	W
Peak charge / discharge power (10 seconds)	4500	6900	W
General Data			
Weight	62	78	kg
Dimensions (W / H / D)	767 / 27	0 / 265	mm
Storage temperature range	-25 ~	- 60	°C
Operating temperature range	-20 ~	- 55	°C
Relative humidity range	5% ~	95%	
Max. operating altitude	400	00	m
Cooling	Natural co	onvection	
System ingress protection rating	IP6	_	
Installation method	Floor standing /	Wall-mounted	
Number of modules per controller	1~	6	pcs
Compatible inverters	SigenStor EC series, Siger	Hybrid SP2/TP2 series ⁴	
Standard Compliance			
Standard ⁵	IEC/EN 60730-1, UN 38.3, IEC/EN 62	2619, IEC/EN 63056, IEC/EN 62477	
	SigenS	tor BC	





300 ~ 600

600 ~ 900

765 / 109 / 260 (without decorative cover)

SigenStor BAT series

Sigen Hybrid SP2/TP2 series

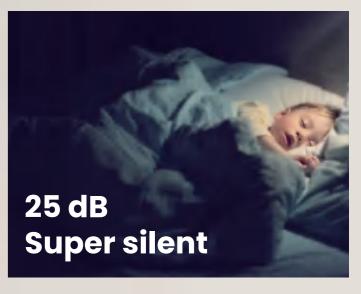
- This is provided by the battery cell manufacturer. Based on cell test condition of 25±2°C, 0.5C charge and discharge rate and SOH=60%.
- 2. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.
- 3. Refers to the usable energy capacity. Battery must be recharged within 7 days after being fully discharged to keep battery healthy.
- 4. SigenStor BC must be used if Sigen Hybrid SP2/TP2 is to be connected to the Sigen Battery.
- 5. For all standards refer to the certificates category on the Sigenergy website.



Harmoniously Complementing Your Home













Sigen Hybrid Inverter 2.0-6.0 kW Single Phase

Sigen Hybrid	2.0 SP2	3.0 SP2	3.6 SP2	4.0 SP2	4.6 SP2	5.0 SP2	6.0 SP2	Units
DC Input (from PV)						!		
Max. PV power	4000	6000	7360	8000	9200	10000	12000	W
Max. DC input voltage				600				V
Nominal DC input voltage				350				V
Start-up voltage				100				V
MPPT voltage range				50 ~ 550				V
Number of MPP. trackers				2				
Number of PV strings per MPPT				1				
Max. input current per MPPT				16				А
Max. short-circuit current per MPPT				22				А
Battery Connection								
Battery controller models				SigenStor BC	<u> </u>			
Battery module models			Sige	enStor BAT se	eries			
Number of modules per controller				1~6				pcs
Battery module voltage range				300 ~ 600				V
AC Output (on-grid)								
Nominal output power	2000	3000	3680	4000	4600	5000	6000	W
Max. output apparent power	2200	3300	3680	4400	5000	5500	6600	VA
Nominal output current	9.1	13.6	16.0	18.2	20.9	22.7	27.3	A
Max. output current	10.0	15.0	16.0	20.0	22.7	25.0	30.0	А
Nominal output voltage			2	220 / 230 / 24	40			V
Nominal grid frequency				50 / 60				Hz
Power factor			0.8 led	ading ~ 0.8 k	agging			
Total current harmonic distortion				THDi < 3%				
AC Output (backup)								
Peak output power (10 seconds)	3000	4500	5520	6000	6900	7500	9000	W
Nominal output voltage			2	220 / 230 / 24	40			V
Nominal output frequency				50 / 60				Hz
Power factor			0.8 led	ading ~ 0.8 k	agging			
Total voltage harmonic distortion				THDv < 3%				
Disruption time of backup switch ¹				0				ms
Efficiency								
Max. efficiency				98.6%				
European efficiency	97.5%	98.0%	98.1%	98.2%	98.3%	98.3%	98.3%	
Protection								
Safety protection feature		ıult circuit in	iterrupter, A	n, Insulation I C overcurrer ge protectio	nt/overvolta	ge/short-ci	rcuit protect	
General Data								
Dimensions (W / H / D)				373 / 473 / 9	9			mm
Weight				11.5				kg
Storage temperature range				-40 ~ 70				°C
Operating temperature range				-30 ~ 60				°C
Relative humidity range				0% ~ 100%				
N. 4				4000				

4000

Natural convection IP66

WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)

Wall-mounted 2.5

25

W

dB

Max. operating altitude

Communication
Installation method

Night consumption

System ingress protection rating

Sigen Hybrid Inverter 3.0-12.0 kW Three Phase

Sigen Hybrid	3.0 TP2	4.0 TP2	5.0 TP2	6.0 TP2	8.0 TP2	10.0 TP2	12.0 TP2	Unit	
DC Input (from PV)									
Max. PV power	6000	8000	10000	12000	16000	20000	24000	W	
Max. DC input voltage				1100				V	
Nominal DC input voltage				600				V	
Start-up voltage				180				V	
MPPT voltage range				160 ~ 1000				V	
Number of MPP. trackers				2					
Number of PV strings per MPPT			1			1/	2		
Max. input current per MPPT			16			16/32	16/32	Α	
Max. short-circuit current per MPPT			22			22/44	22/44	Α	
Battery Connection						,			
Battery controller models				SigenStor BC					
Battery module models				enStor BAT se					
Number of modules per controller			9	1~6				pc:	
Battery module voltage range				600 ~ 900				V	
AC Output (on-grid)									
Nominal output power	3000	4000	5000	6000	8000	10000	12000	W	
Max. output apparent power	3300	4400	5500	6600	8800	11000	13200	VA	
Nominal output current	4.6	6.1	7.6	9.1	12.2	15.2	18.2	A	
Max. output current	5.1	6.7	8.4	10.0	13.4	16.7	20.1	A	
Nominal output voltage	0.1			/400, 240/4			20.1		
Nominal grid frequency			20/000, 200	50 / 60	10 (077)11.11	-/		 Hz	
Power factor		0.8 leading ~ 0.8 lagging						- 112	
Total current harmonic distortion		THDi < 3%							
				11101 \ 376					
AC Output (backup)		-	-			•			
Peak output power (10 seconds)	6000	8000	10000	12000	16000	20000	24000	W	
Nominal output voltage		2	220/380, 230	/400, 240/4	15 (3W/N+PE	<u> </u>		V	
Nominal output frequency				50 / 60				Hz	
Power factor			0.8 lec	ading ~ 0.8 lo	agging				
Total voltage harmonic distortion				THDv < 3%					
Disruption time of backup switch ¹				0				ms	
Efficiency									
Max. efficiency	98.8%	98.9%	98.9%	99.0%	99.0%	99.0%	99.0%		
European efficiency	97.2%	97.8%	98.1%	98.5%	98.5%	98.5%	98.6%		
Protection									
Safety protection feature		ult circuit in	terrupter, A0	overcurrer	nt/overvolta	Residual cur ge/short-cir iding protec	cuit protect		
General Data									
Dimensions (W / H / D)				177 / 568 / 9	9			mn	
Weight				19.5				kg	
Storage temperature range				-40 ~ 70				°C	
Operating temperature range				-30 ~ 60				°C	
Relative humidity range	0% ~ 100%								
7 3	4000							m	
, ,		Natural convection							
Max. operating altitude			Nat	ural convec	tion				
Max. operating altitude Cooling			Nat	ural convec	tion				
Max. operating altitude Cooling System ingress protection rating	V	VLAN / Fast I		IP66		d (4G/3G/2G)		
Max. operating altitude Cooling System ingress protection rating Communication	V	WLAN / Fast I	Ethernet / RS	IP66	ı CommMoo	d (4G/3G/2G)		
Max. operating altitude Cooling System ingress protection rating Communication Installation method Night consumption	V	VLAN / Fast I	Ethernet / RS	IP66 S485 / Sigen	ı CommMoo	d (4G/3G/2G)	W	

¹ This document reflects current technology and is subject to change without notice. Refer to the Sigenergy website for the latest information.



^{1.} This document reflects current technology and is subject to change without notice. Refer to the Sigenergy website for the latest information.

Sigen Energy Gateway HomePro

- Seamless switchover, ensuring 0ms load-side disruption
- Built-in bypass circuit for enhanced system reliability
- Supports diesel generator connection & smart control
- Real-time current monitoring with 350ms anti-backflow protection
- PV / ESS / grid / generator / V2X, multi-source seamless switching
- Whole-house backup & smart prioritized backup supported



Sigen Energy Gateway HomePro

Sigen Gateway	HomePro SP	HomePro SP-F	HomePro TP	Units
Grid Connection				
Grid connection type	Single	Phase	Three phase	
Nominal AC voltage	220 / 23	30 / 240	380 / 400	V
Nominal AC current	54.6	100	45.6	А
Nominal AC power	12	22	30	kW
Nominal AC frequency		50 / 60		Hz
Disruption time of backup switch 1		0		ms
AC Output to Backup Port				
Nominal AC voltage	220 / 23	30 / 240	380 / 400	V
Nominal AC current	54.6	100	45.6	A
Nominal AC power	12	22	30	kW
Nominal AC frequency		50 / 60		Hz
Overvoltage category		III		
Inverter Connection				
Nominal AC voltage	220 / 23	30 / 240	380 / 400	V
Nominal AC current	54.6 / 32 ²	55	45.6	А
Nominal AC power	12 / 6 2	12	30	kW
Smart Port Connection				
Generator output voltage	220 / 23	30 / 240	380 / 400	V
Nominal current	54.6	55	45.6	A
Nominal AC power	12	12	30	kW
Generator 2-wire start		Supported		
General Data				
Dimensions (W / H / D)	450 / 610 / 197 (without decorative cover)	450 / 695 / 177 (without decorative cover)	450 / 695 / 163	mm
Weight	25 (without decorative cover)	25 (without decorative cover)	25	kg
Storage temperature range		-40 ~ 70		°C
Operating temperature range		-30 ~ 55		°C
Relative humidity range		0% ~ 100%		
Max. operation altitude		4000		m
Cooling		Natural convection		
Ingress protection rating	IP54	IP55	IP54	
Communication	Fc	ast Ethernet, RS485, dry contact		
Installation method	Wall mounted (Support rear-wiring)	Wall mounted	Wall mounted	

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.

For Sigenergy single phase inverter products, 8.0-12.0 kW inverters should be connected to the INV1 port, 3.0-6.0 kW inverters should be connected to the INV2 port. The total
power of the inverter cannot exceed 12 kW.

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

SigenMicro Inverter

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

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



SigenMicro Inverter

Preliminary

SigenMicro		400			500			800			1000		Units
DC Input													
Commonly used module power	32	20 ~ 540)+	40	00 ~ 670)+	(320	~ 540+	-) x 2	(400) ~ 670+	-) x 2	W
Start-up voltage						2	0)					
Min. / Max. PV input voltage	,					16 ~	60						V
MPPT voltage range						16 ~	60						V
Number of modules connected		1			1		-	2			2		
Max. input current		16 x 1			16 x 1			16 x 2			16 x 2		А
Max. input short-circuit current		25 x 1			25 x 1			25 x 2			25 x 2		А
AC Output													
Grid type						Single	Phase						
Nominal output power	,	400			500			800			1000		W
Nominal output current	1.82	1.74	1.67	2.27	2.17	2.08	3.64	3.48	3.33	4.55	4.35	4.17	Α
Nominal output voltage	220	230	240	220	230	240	220	230	240	220	230	240	V
Nominal output voltage range ¹	_					184 -	275						V
Nominal grid frequency						50	60						Hz
Grid frequency range ¹						5 ~ 55	/ 57 ~ 6	3					Hz
Total current harmonic distortion	_				THDi < 3	% (at n	ominal	power)				
Power factor					0.8 le	ading [,]	~ 0.8 laç	gging					
Max. units per branch ² (2.5 mm ²)	8	9	9	7	7	7	4	4	4	3	3	3	
Max. units per branch ² (4.0 mm ²)	13	13	14	10	11	11	6	6	7	5	5	5	
Efficiency													
Max. efficiency						97	.5%						
European efficiency						96	.7%						
Monitoring & Protection													
Grid monitoring						Supp	orted						
Ground fault detection						Supp	orted						
PV module-level monitoring						Supp	orted						
Rapid shutdown						Supp	orted						
Surge protection							orted						
General Data													
Dimensions (W / H / D)				2	32 / 186	/ 35 (v	vithout	bracke	t)				mm
Weight						2	.8						kg
Storage temperature range						-40	~ 85						°C
Operating temperature range						-40	~ 65						°C
Relative humidity range						0% ~	100%						
Max. operation altitude						40	00						m
Cooling					No	tural c	onvecti	on					
Topology			High	Freque	ency Tro	ansforn	ners, G	alvanic	ally Isol	ated			
Night power consumption						< !	50						mW
Ingress protection rating						IP	67						
Display						LE	D						
Communication						WL	.AN						
AC connection type					Plug	and pla	y conn	ector					
Installation method					В	acket i	nounte	ed					

^{1.} Nominal output voltage range and grid frequency range can vary depending on local requirements.

^{2.} Limitations may differ by region. For the exact number of microinverters permitted per branch circuit, please refer to local regulations and standards.

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

Sigen EVAC Charger

- 100% Green power charging with Sigenergy home energy solution
- IP65 & IK10 protection rating, worry-free outdoor usage with easy O&M
- Dynamic load management to prevent overload, user-friendly charging*
- Easy installation with less steps and top/bottom/rear wiring option
- Enable dynamic tariff & Sigen AI mode for smarter scheduling



Sigen EV AC Charger 7 / 11 / 22 kW

Sigen EVAC		7	11	22	Uni		
AC Input & O	utput						
Nominal charging		7	11	22	kW		
Nominal output vo	·	220 ~ 240 1W+N+PE	220 ~ 240 / 380 ~ 415 3W+N+PE	220 ~ 240 / 380 ~ 415 3W+N+PE	V		
Output current ran	nge	6 ~ 32	6 ~ 16	6 ~ 32	A		
Nominal AC freque			50 / 60		 Hz		
Vehicle connection		Tyr	pe 2 connector / Type 2 sock	et with shutter			
AC input cable wic	dth range	71	2.5 ~ 6.0		mn		
Protection							
Integrated RCD-PD) fault detection 1		AC 30 mA + DC 6 mA				
Flame retardant ro			UL94-5VB				
Safety protection	9		OVP, UVP, OCP, OTP				
PEN protection			Supported				
Randomized charg	aina delav		Supported		,		
Ground fault prote	,		Supported		-		
Surge protection			Supported				
Grounding system			TT, TN, IT		_		
	e & Communica	tion	11, 11%, 11				
Protocol	e & Communica	uoi i	RS485, Modbus RTU				
Communication			4G / WLAN / Fast Ethernet		_		
		DEID oard	· · · · · · · · · · · · · · · · · · ·	hantiagtion)			
Authentication		KFID CUIU	/ App / Auto-charge (no aut	nentication)			
Display			LED indicator / App				
	Smart Schedule		g time, charging frequency a ween PV surplus charging an				
Smart Charging ²	PV Surplus Charging	Enable EV charging energy from PV surplus power with Battery boost power priority setting as well as the Battery cut-off SOC setting					
	Fast Charging		er from the grid and PV simud also supports additional Bo				
Metering		External m	neter with RS485 / Integrated	metering IC			
Dynamic load mai	nagement ³		Supported				
Phase switching			Supported				
Third-parties inver PV surplus chargin			Supported				
OCPP protocol	.9		OCPP 1.6J ED 2				
General Data	l						
Dimensions (W / H	/ D)		234 / 384 / 139		mr		
Weight (case B / c			4.5 / 6.4		kç		
Storage temperati			-40 ~ 70		°C		
Operating temper			-30 ~ 55		°C		
Relative humidity r	range		5% ~ 95%				
Max. operating alti			4000		m		
Cooling			Natural convection		_		
Ingress protection	rating		IP65				
Installation metho			Wall-mounted		-		
Application environment Outdoor / Indoor							
Standby self-cons			< 3.6		W		
Standard charging	<u> </u>	5					
Cable entries		Bo	ttom, Top and Rear cable en	ntries	m		
Standard Col	mnliance		7.212 22 (100) 000				
	in pliante	EN JEC 61851-1 JEC	C 62955, EN IEC 61851-21-2 FT	SLEN 300 330 V211			
Standard 4			N IEC 62311, EN50665, ETSI EN 3				
Standard ⁴			C 62955, EN IEC 61851-21-2, ET N IEC 62311, EN50665, ETSI EN 3				

^{1.} Residual direct current protective device (RDC-PD) with integrated AC pulsating DC and 6mA DC detection, evalution and mechanical switching in the Sigen EV AC Charger is tested according to IEC 62955.

^{2.} This function needs to be used with SigenStor.

This function needs to be used with Sigen Power Sensor.

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

Sigen Power Sensor

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



Sigen Power Sensor

Sigen Sensor ^{1,2}	SP-CT100	TP-CT100	Units
Power Supply			'
Grid connection type	1P2W	3P3W/3P4W	
AC input voltage range	100 ~ 276	176 ~ 276 (L~N), 277 ~ 304 (L-L)	Vac
Nominal AC frequency	50 /	60	Hz
Measurement Accuracy			
Voltage accuracy	0.5	5%	
Current accuracy	0.5% (4	~ 100A)	
Power accuracy	19	%	
Frequency accuracy	0.5	5%	
Communication			
Interface	RS4	185	
Baud rate	9,6	00	bps
Protocol	Modbu	us RTU	
General Data			
Dimensions (W / H / D) ²	19 / 94.5 / 68.5 c	or 18 / 100 / 65.5	mm
Weight	0.07	0.08	kg
Storage temperature range	-40	~ 70	°C
Operating temperature range	-25 -	~ 65	°C
Relative humidity range	0% ~	95%	
Ingress protection rating	IP2	20	
Installation method	DIN Rail	35 mm	
CT Accessory			
Number of CT	1	3	pcs
Cable length of CT	1		m
Inner diameter of CT ²	24 /	/ 16	mm
Weight of CT ²	0.09 / 0.133	0.2 / 0.43	kg
Max. operating current of CT	10	0	А
Standard Compliance			
Standard	EN 61010-1:2010, EN	61010-2-030:2010	

	Sigen Sensor Sub1G Kit	Units
Working mode	AP(master device), STA(slave device)	
Communication method	RS485 / wireless communication	
Protocol	IEEE 802.11ah	
Operating voltage	85 ~ 277	Vac
Power consumption	2	W
Operating temperature range	−25 ~ 55	°C
Dimensions (W / H / D)	18 / 118 /66	mm
Wireless frequency	868	MHz
Wireless transmission distance ³	≤ 200	m
Installation method	DIN Rail 35 mm	

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

Sensors from two different manufacturers may be shipped interchangeably as they are functionally identical. Please refer to the actual products received for confirmation.

^{3.} Lab tests have shown a maximum horizontal range of up to 200 metres in open spaces, with shorter communication distances when walls are in the way.

Sigen Communication Module

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



Sigen Communication Module

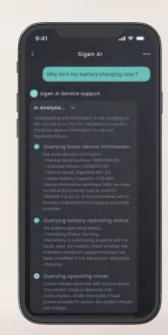
	Sigen CommMod ¹	Units
Connection interface	USB	
Installation type	Plug-and-play	
Display	LED indicators	
Dimensions (W / H / D)	52 / 112 / 33	mm
Weight	90	g
Ingress protection rating	IP66	
Power consumption (typical)	< 4	W
Supported SIM card	Micro-SIM (12mm x 15mm)	
Supported standards	LTE-FDD B1/3/7/8/20/28A LTE-TDD B38/40/41 WCDMA B1/8 GSM/EDGE B3/8	
Storage temperature range	-40 ~ 70	°C
Operating temperature range	-30 ~ 60	°C
Relative humidity range	0% ~ 100%	
Max. operating altitude	4000	m
Controller / Inverter compatibility	Sigen Energy Controller series Sigen Hybrid Inverter series	

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

^{2.} This product is only available in specific regions. Please contact Sigenergy or local distributors for details.

Real-time Monitoring

Monitor real-time energy flow on home screen



Sigen Al Assistant

Intelligent diagnostics powered by AI deep thinking



Sigen Al Mode

Smart scheduling that adapts to weather,tariffs, and your energy habits for maximum savings



Strategy Insight

Al-empowered system operation strategy analysis



Energy Sankey Diagram

Know where every watt comes from and where it goes



Battery Energy Source

Real-time battery power source composition refreshing every 10 seconds

mySigen App

Intelligent energy management within touches

Smarter energy life empowered by mySigen App



Sigen Cloud

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



- •Instantly grasp business trends with data visualization and interactive data modules
- •Batch remote system parameter configuration and automatic command retry
- •Enhanced system operation status monitoring with multi-layer real-time cell-level information
- •Real-time system data updates every 10 seconds, offering clear energy insights at a glance
- •Sigen AI smart energy assistant, always online to resolve your inquires instantly

		Interactive BI Dashboard
	Business Operation	Installer Points Dashboard
		Points Redemption Mall
		Alarm Management
	Efficient Maintenance	System Ownership Management
~ ~		Group Systems to Manage
		System Status-based Management
		10-second Interval System Energy Flow
\bigcirc	System Monitoring	System Energy Graphs
\rightarrow		System Report Search and Download
		Sigen Device and Third-party Device Management
		Device Management in Category
		10-second Interval Device Real-Time Information
	Device Monitoring	10-second Interval Device Real-Time Information Parameter Check and Remote Configuration
	Device Monitoring	
	Device Monitoring After-sales Service	Parameter Check and Remote Configuration
		Parameter Check and Remote Configuration Device Historical Curves
		Parameter Check and Remote Configuration Device Historical Curves Device Warranty Period Lookup
	After-sales Service	Parameter Check and Remote Configuration Device Historical Curves Device Warranty Period Lookup In-organization Member Management
	After-sales Service	Parameter Check and Remote Configuration Device Historical Curves Device Warranty Period Lookup In-organization Member Management Company Information
	After-sales Service	Parameter Check and Remote Configuration Device Historical Curves Device Warranty Period Lookup In-organization Member Management Company Information Installer Company Hierarchical Management
	After-sales Service Organization Management	Parameter Check and Remote Configuration Device Historical Curves Device Warranty Period Lookup In-organization Member Management Company Information Installer Company Hierarchical Management Al Smart Assistant

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

240 kWac

🗓 3,000 m²

Estimated Annual Generation

₹ 398,200 kWh

Community Contribution per Year

© 309t CO₂ emission reduced \$\tilde{\Phi}\$ 269 equivalent of trees planted











Powering Homes Worldwide









