SIGENERGY

Business Energy Solution

Powering the future of business

Website | LinkedIn | YouTube

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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VISION

Enjoy Green Energy

MISSION

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

SIGEN

Safe **I**ntelligent **G**reen **E**fficient **N**ew

SIGENERGY BUSINESS ENERGY SOLUTION

By integrating solar power with energy storage, businesses can effectively reduce ongoing utility cost and reliance on the grid. Not only providing a safety net in the event of power emergencies, but also fulfilling corporate social responsibilities. A competitive edge can be obtained by adopting more sustainable practices that align with company values as well as consumer and market trends.

Optimal Investment

Flexible adaption to different scenarios by modular design
Stackable easy installation with instant commissioning
Free from complex cabling, reducing costs and labor

Minimal O&M

IP66 protection, worry-free O&M and outdoor application
Comprehensive protection at both system and battery levels
Remote one-click full system diagnosis for easy troubleshooting

Higher Yields

Enhanced power generation achieved through more MPPTs
Battery active balancing for more usable energy
DC coupling system mitigates energy loss from cables

Sigen PV Inverter

50.0 / 60.0 / 80.0 / 100.0 / 110.0 / 125.0 kW

- **Lightweight design, saves transportation and installation costs**
- **Multiple units in parallel connection, no data logger needed**
- **Industry-leading AFCI detection, superior safety and reliability**
- **Instant PV reverse connection alert, ensuring correct installation**
- **IP66 protection rating, worry-free outdoor usage with easy O&M**

Sigen PV Inverter 50.0 / 60.0 / 80.0 / 100.0 / 110.0 / 125.0 kW

Sigen PV	50M1	60M1	80M1	100M1	110M1	125M1 [1]	Units
DC Input							
Max. PV input power	100,000	120,000	160,000	200,000	220,000	220,000	Wp
Max. DC input voltage	1,100						V
Nominal DC input voltage	600						V
Start-up voltage	180						V
MPPT voltage range	160 ~ 1,000						V
Number of MPP. trackers	4	5	6	8	8	8	
Number of PV strings per MPPT	2						
Max. input current per MPPT	32						A
Max. short-circuit current per MPPT	50						A
AC Output							
Nominal output active power	50,000	60,000	80,000	100,000	110,000	125,000 [1]	W
Max. output apparent power	55,000	66,000	88,000	110,000	121,000	125,000 [1]	VA
Max. output active power (cosΦ=1)	55,000	66,000	88,000	110,000	121,000	125,000 [1]	W
Nominal output current	76.0	91.2	121.5	151.9	167.1	181.2	A
Max. output current	83.6	100.3	133.7	167.1	183.8	181.2	A
Nominal output voltage	380 / 400 3W+(N)+PE					400 3W+(N)+PE	Vac
Nominal grid frequency	50 / 60						Hz
Power factor	0.8 leading ~ 0.8 lagging						
Total current harmonic distortion	THDi < 3%						
Efficiency							
Max. efficiency	98.6%						
European efficiency	98.3%	98.3%	98.3%	98.4%	98.4%	98.3%	
Protection							
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter, AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection						
General Data							
Dimensions (W / H / D)	918 / 640 / 340						mm
Weight	75						kg
Nighttime power consumption	< 3.5						W
Storage temperature range	-40 ~ 70						°C
Operating temperature range	-30 ~ 60						°C
Relative humidity range	0% ~ 100%						
Max. operating altitude	5,000 (Derating at 4,000m)						m
PV connection type	MC4 (Max. 6 mm²)						
AC connection type	OT / DT terminal (Max. 240 mm²)						
Cooling	Smart air cooling						
Ingress protection rating	IP66						
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)						
Standard Compliance							
Standard [2]	IEC / EN 62109-1, IEC / EN 62109-2, IEC / EN 61000-6-1, IEC / EN 61000-6-2						

1. Operates at specific temperature. Please contact Sigenergy for availability.
2. For all standards refer to the certiffcates category on the Sigenergy website.
3. This document reflects current technology and is subject to change without notice. Refer to the Sigenergy website for the latest information.

Sigen Hybrid Inverter

50.0 / 60.0 / 80.0 / 100.0 / 110.0 / 125.0 kW

- **Battery ready, easy upgrades to a PV + ESS system**
- **Lightweight design, saves transportation and installation costs**
- **Multiple units in parallel connection, no data logger needed**
- **Industry-leading AFCI detection, superior safety and reliability**
- **Instant PV reverse connection alert, ensuring correct installation**
- **IP66 protection rating, worry-free outdoor usage with easy O&M**

Sigen Hybrid Inverter 50.0 / 60.0 / 80.0 / 100.0 / 110.0 / 125.0 kW

Sigen PV	50M1-HYA	60M1-HYA	80M1-HYA	100M1-HYA	110M1-HYA	125M1-HYA [1]	Units
DC Input (PV)							
Max. PV input power	100,000	120,000	160,000	200,000	220,000	220,000	Wp
Max. DC input voltage	1,100						V
Nominal DC input voltage	600 @380/400 Vac, 720 @480 Vac						V
Start-up voltage	180						V
MPPT voltage range	160 ~ 1,000						V
Number of MPP. trackers	4	5	6	8	8	8	
Number of PV strings per MPPT	2						
Max. input current per MPPT	32						A
Max. short-circuit current per MPPT	50						A
DC Input (Battery)							
Battery module models	SigenStack BAT 12.0						
System configuration quantity range	4 ~ 21						pcs
Max. charge power	55,000	66,000	88,000	110,000	121,000	121,000 [1]	W
Max. discharge power	55,000	66,000	88,000	110,000	121,000	125,000 [1]	W
Max. operating current	180						A
AC Output							
Nominal output active power	50,000	60,000	80,000	100,000	110,000	125,000 [1]	W
Max. output apparent power	55,000	66,000	88,000	110,000	121,000	125,000 [1]	VA
Max. output active power (cosΦ=1)	55,000	66,000	88,000	110,000	121,000	125,000 [1]	W
Nominal output current @380Vac	76.0	91.2	121.5	151.9	167.1	/	A
Nominal output current @400Vac	72.5	87.0	115.9	144.9	159.4	181.2	A
Nominal output current @480Vac	60.2	72.2	96.3	120.3	132.4	150.4	A
Max. output current @380Vac	83.6	100.3	133.7	167.1	183.8	/	A
Max. output current @400Vac	79.7	95.7	127.5	159.4	175.4	181.2	A
Max. output current @480Vac	66.2	79.4	105.9	132.4	145.6	150.4	A
Nominal output voltage	380/400/480 3W+(N)+PE					400/480 3W+(N)+PE	Vac
Nominal grid frequency	50 / 60						Hz
Power factor	0.8 leading ~ 0.8 lagging						
Total current harmonic distortion	THDi < 3%						
Efficiency							
Max. efficiency @380/400 Vac	98.6%						
European efficiency @380/400 Vac	98.3%	98.3%	98.3%	98.4%	98.4%	98.3%	
Max. efficiency @480 Vac	98.8%						
European efficiency @480 Vac	98.4%	98.4%	98.4%	98.6%	98.6%	98.4%	
Protection							
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter, AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection						
General Data							
Dimensions (W / H / D)	918 / 640 / 340						mm
Weight	78						kg
Nighttime power consumption	< 3.5						W
Storage temperature range	-40 ~ 70						°C
Operating temperature range	-30 ~ 60						°C
Relative humidity range	0% ~ 100%						
Max. operating altitude	5,000 (Derating at 4,000m)						m
PV connection type	MC4 (Max. 6 mm²)						
AC connection type	OT / DT terminal (Max. 240 mm²)						
Cooling	Smart air cooling						
Ingress protection rating	IP66						
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)						

1. Operates at specific temperature. Please contact Sigenergy for availability.
2. This document reflects current technology and is subject to change without notice. Refer to the Sigenergy website for the latest information.

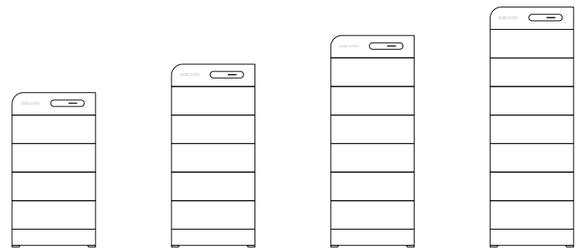
SigenStack

- Modular design, stackable installation, ultra-fast commissioning
- Pack-level safety protection, precise thermal runaway control
- Higher energy density, less footprint, easy site selection
- IP66 protection rating, free of regular & complex O&M

C&I Energy Storage System

SigenStack BC	M2-0.5C	M2-0.5C-BST[1]	M2-1C-BST[1]	Units
Max. output current (to inverter)		180		A
Max. input current (from inverter)		180		A
Operating voltage range		550 ~ 1100		V
Nonimal charge/discharge current of battery	157	157	314	A
Weight	50	60	60	kg
Dimensions (W / H / D)		768 / 248 / 363		mm
Communication		CAN		
Compatible inverter		Sigen Hybrid Inverter Series		

	SigenStack BAT 12.0	Units
Performance Specification		
Battery type	LiFePO4	
Cell capacity	314	Ah
Cycle life [2]	10000	
Total energy capacity per module	12.06	kWh
Weight	107	kg
Dimensions (W / H / D)	768 / 300 / 363	mm
Nominal charge / discharge rate	0.5C	
Max. charge / discharge rate	1C	
System configuration quantity range	4 ~ 21	pcs
Max. system energy capacity	253	kWh
System General Data		
Fire suppression system	Aerosol, smoke sensor and exhausting system	
Max. operating altitude	4,000 (Derating at 2,000m)	m
Cooling	Smart air cooling	
System ingress protection rating	IP66	
Noise	< 70	dB
Operating temperature range	-20 ~ 55	℃
Relative humidity range	0% ~ 100%	
Max. number of modules per stack	7	pcs
Max. number of modules per system	21	pcs
Dimensions of base (W / H / D)	768 / 195 / 363	mm
Installation method	Floor standing	



Number of battery modules	4	5	6	7	pcs
Total energy capacity	48.24	60.3	72.36	84.42	kWh
Total weight	508	615	722	829	kg
Total height (with base and SigenStack BC)	1,643	1,943	2,243	2,543	mm
Total width	768				mm
Total depth	363				mm

1. When the number of battery modules in a system ≤ 19, or in the case of PV + ESS (DC coupling) projects, the battery controller should always utilize the 'BST' model.
2. 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%.
3. This document reflects current technology and is subject to change without notice. Refer to the Sigenergy website for the latest information.

Sigen Energy Controller

5.0 - 30.0 kW Three Phase

- EMS inside for precise control
- Up to 4 MPP. trackers
- Multi-source black start
- On & off-grid compatibility
- DC/AC ratio up to 1.6
- IP66 system protection rating

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	1100										V
Nominal DC input voltage	600										V
Start-up voltage	180										V
MPPT voltage range	160 ~ 1000										V
Number of MPP. trackers	2			3			4				
Number of PV strings per MPPT	1										
Max. input current per MPPT	16										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	30000	W
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	33000	VA
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	45.5	A
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	50.0	A
Nominal output voltage	380 / 400										V
Nominal grid frequency	50 / 60										Hz
Power factor	0.8 leading ~ 0.8 lagging										
Total current harmonic distortion	THDi < 2%										
Efficiency											
Max. efficiency	98.1%	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)											
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	36000	W
Nominal output voltage	380 / 400										V
Nominal output frequency	50 / 60										Hz
Power factor	0.8 leading ~ 0.8 lagging										
Total voltage harmonic distortion	THDv < 2%										
Disruption time of backup switch [2]	0										ms
Battery Connection											
Battery module models	SigenStor BAT 5.0 / 8.0										
Number of modules per controller	1 ~ 6										pcs
Battery module voltage range	600 ~ 900										V
Protection											
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter [3], AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection										
General Data											
Dimensions (W / H / D)	700 / 300 / 260										mm
Weight	36										kg
Storage temperature range	-40 ~ 70										°C
Operating temperature range	-30 ~ 60										°C
Relative humidity range	0% ~ 95%										
Max. operating altitude	4000										m
Cooling	Smart air cooling										
System ingress protection rating	IP66										
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)										
Standard Compliance											
Standard [4]	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2										

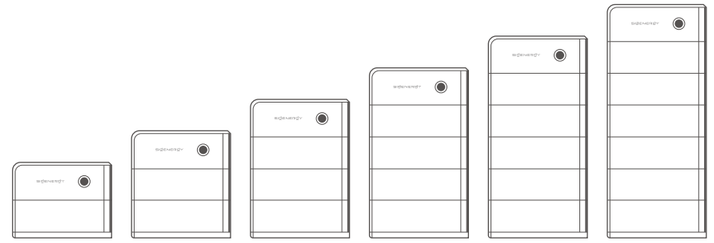
1. Sigen Energy Controller 30.0 kW Three Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.
2. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Controller needs to be used together with Sigen Battery and Sigen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

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

Sigen Battery

SigenStor BAT	5.0	8.0	Units
Performance Specification			
Battery type	LiFePO4		
Cell capacity	280		Ah
Cycle life [1]	10000		
Total energy capacity	5.38	8.06	kWh
Usable energy capacity [2]	5.2	7.8	kWh
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 / 270 / 260		mm
Storage temperature range	-25 ~ 60		°C
Operating temperature range	-20 ~ 55		°C
Relative humidity range	5% ~ 95%		
Max. operating altitude	4000		m
Cooling	Natural convection		
System ingress protection rating	IP66		
Installation method	Floor standing / Wall-mounted		
Standard Compliance			
Standard	IEC/EN 60730-1, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62040		



Number of battery modules [3]	1	2	3	4	5	6	pcs
Total energy capacity	8.06	16.12	24.18	32.24	40.3	48.36	kWh
Max. charge / discharge power	4	8	12	16	20	24	kW
Total weight	112	183	254	325	396	467	kg
Total height (with base)	640	910	1180	1450	1720	1990	mm
Total width (with decorative covers)	850						mm
Total depth (with decorative covers)	260						mm

1. 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. The data in the table is based on the combination of SigenStor BAT 8.0 and SigenStor EC three-phase as an example, with a ground-mounted installation.

Sigen Energy Gateway

- Multiple SigenStor connections supported for micro-grid system
- Seamless backup, worry-free energy usage for your business
- Generator supported, abundant backup power
- 350 ms reverse power flow protection of grid & generator
- Uninterrupted power supply through PV+ESS/grid/generator

Sigen Energy Gateway

Preliminary

Sigen Gateway	HomeMax TP	C120-6	C180-9	C300-12	C600-30	C1200-50	Units
Grid Connection							
Grid connection type	Three phase						
Nominal AC voltage	380 ~ 400						V
Nominal AC current	76	182.4	274	456	912	1824	A
Nominal AC power	50	120	180	300	600	1200	kW
Nominal AC frequency	50 / 60						Hz
Disruption time of backup switch [1]	0						ms
AC Output to Backup Port							
Nominal AC voltage	380 ~ 400						V
Nominal AC current	76	182.4	274	456	912	1824	A
Nominal AC power	50	120	180	300	600	1200	kW
Nominal AC frequency	50 / 60						Hz
Overvoltage category	III						
Inverter Connection							
Number of connection ports	2	6	9	12	30	50	
Nominal AC voltage	380 ~ 400						V
Max. AC input current	38	45.6	45.6	45.6	45.6	45.6	A
Generator Connection							
Generator output voltage	380 ~ 400						V
Nominal AC current	76	182.4	274	456	912	1824	A
Nominal AC power	50	120	180	300	600	1200	kW
Generator 2-wire start	Supported						
General Data							
Dimensions (W / H / D)	510 / 750 / 179	850 / 1100 / 305	800 / 2300 / 830		1800 / 2300 / 1270		mm
Weight	23	74	345	400	1500	1500	kg
Storage temperature range	-40 ~ 70						°C
Operating temperature range [2]	-30 ~ 55						°C
Relative humidity range	0% ~ 95%						
Max. operation altitude [2]	4000						m
Cooling	Natural convection				Smart air cooling		
Ingress protection rating	IP54		IP20				
Communication	Fast Ethernet , RS485, dry contact						
Installation method	Wall-mounted		Ground-mounted				

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 backup loads.
2. Please consult Sigenergy for detailed power derating information and customized requirements.

Sigen Hybrid Inverter

5.0 - 30.0 kW Three Phase

- Battery ready, future proof
- DC/AC ratio up to 1.6
- Up to 4 MPP. trackers
- IP66 protection rating

Sigen Hybrid Inverter 5.0-30.0 kW Three Phase [1]

Sigen Hybrid	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	30.0 TP	Units
DC Input											
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	48000	W
Max. DC input voltage	1100										V
Nominal DC input voltage	600										V
Start-up voltage	180										V
MPPT voltage range	160 ~ 1000										V
Number of MPP. trackers	2			3			4				
Number of PV strings per MPPT	1										
Max. input current per MPPT	16										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	30000	W
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	33000	VA
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	45.5	A
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	50.0	A
Nominal output voltage	380 / 400										V
Nominal grid frequency	50 / 60										Hz
Power factor	0.8 leading ~ 0.8 lagging										
Total current harmonic distortion	THDi < 2%										
Efficiency											
Max. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.4%	
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	98.0%	
Additional Features											
Compatible battery module	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	15000	18000	22500	25500	30000	30000	36000	W
Nominal output voltage	380 / 400										V
Protection											
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter [2], 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										
Installation method	Wall-mounted										
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)										
Standard Compliance											
Standard [3]	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2										

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

Sigen EV DC Charging Module

Experience Fast DC charging

- Max. 25 kW bi-directional charging
- 150 V ~ 1000 V charging, wide EV compatibility
- Tracking & smart control on mySigen App
- IP66 system protection, maintenance free
- Charge EV with green solar power [1]

Sigen EV DC Charging Module 12 / 25 kW

SigenStor EVDC [1]	12	25	Units
DC Charging			
Max. charging power of charging port	12.5	25	kW
Max. discharging power of charging port	12.5	25	kW
Operation voltage range	150 ~ 1000		V
Max. operation current	40	80	A
Charging interfaces	CCS2		
Protection			
Short-circuit protection	Supported		
Over / Under voltage protection	Supported		
Overload protection	Supported		
Over temperature protection	Supported		
Reverse polarity protection	Supported		
Welded contactor check	Supported		
General Data			
Dimensions (W / H / D)	700 / 270 / 260		mm
Weight [2]	37 (5m cable) / 39 (7.5m cable) / 41 (10m cable)		kg
Storage temperature range	-40 ~ 70		°C
Operating temperature range	-30 ~ 60		°C
Relative humidity range	5% ~ 95%		
Max. operating altitude	4000		m
Cooling	Smart air cooling		
System ingress protection rating	IP66		
Integrated charging cable length [3]	5 / 7.5 / 10		m
Function			
Authentication	RFID card / App / No authentication		
Application	Bi-directional V2X operation [4], Smart load management		
User interfaces	LED indicator, App, RFID		
Remote function	OTA, Remote diagnosis		
Standard Compliance			
Standard [5]	EN IEC 61851-1, EN 61851-23, EN IEC 61851-21-2, ETSI EN 303 645		

1. Sigen EV DC Charging Module needs to be used together with Sigen Energy Controller.
2. The net weight includes the CCS2 cable-assembly also, but excludes the exteriors, wall-mounting fixtures and the related attachments.
3. Integrated charging cable length refers to the length of the cable that extends from the Sigen EV DC Charging Module, not the length of the exposed cable.
4. V2X functionality is limited by the EV's capabilities. Once the relevant standards are published and tested, V2X feature can be upgraded through the OTA. For the official support of vehicle models and support timelines, please refer to future announcement made on the official website.
5. For all standards refer to the certificates category on the Sigenergy website.

Sigen Communication Module

- IP66 protection rate, 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 * 15mm)	
Supported standards	LTE-FDD B1/3/7/8/20/28A LTE-TDD B38/40/41 WCDMA B1/8 GSM/EDGE B3/8	
Storage temperature range	-40 ~ 70	°C
Operating temperature range	-30 ~ 60	°C
Relative humidity range	0% ~ 95%	
Max. operating altitude	4000	m
Controller / Inverter compatibility	Sigen Energy Controller series Sigen Hybrid Inverter series Sigen PV Inverter series	

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

Sigen Power Sensor

- 1% high-accuracy power detection for precise control
- LCD real-time info display, easy to operate and check
- Integrate smoothly with Sigenergy devices, no need for setup
- Support export/import limitations and ready for AI evolving
- 100 ms data refresh rate, instantaneous data feed

Sigen Power Sensor

Sigen Sensor [1]	TP-CT120-DH	TP-CT300-DH	TP-CT600-DH	TPX-DH	Units
Power Supply					
Grid connection type	3P3W/3P4W				
AC input voltage range	173 ~ 480				Vac
Nominal AC frequency	50 / 60				Hz
Measurement Accuracy					
Voltage accuracy	0.5%				
Current accuracy	0.5%				
Power accuracy	1%				
Frequency accuracy	0.2%				
Communication					
Interface	RS485				
Baud rate	9600				bps
Protocol	Modbus RTU				
General Data					
Dimensions (W / H / D)	72 / 94.5 / 65				mm
Weight	0.20	0.20	0.23	0.23	kg
Storage temperature range	-40 ~ 70				°C
Operating temperature range	-25 ~ 60				°C
Relative humidity range	0% ~ 90%				
Ingress protection rating	IP20				
Installation method	DIN Rail 35 mm				
CT Accessory					
Number of CT	3	3	3	-	pcs
Cable length of CT	1	1	1	-	m
Inner diameter of CT	16	24	36	-	mm
Weight of CT	0.09	0.2	0.4	-	kg
Max. operating current of CT	120	300	600	-	A
Standard Compliance					
Standard	EN 61010-1:2010, EN 61010-2-030:2010				

1. For more models refer to the Sigenergy website.

Leading the Way in Intelligent Manufacturing

6 GWh
Battery production capacity

12 GW
Inverter production capacity

Located in the Lin-gang New Area, Shanghai, a hub of world-class enterprises with strong innovative strengths, the 20,000 sqm manufacturing center is equipped with state-of-the-art technology and innovative manufacturing processes that allow us to produce high-quality products with exceptional efficiency. It also features the latest manufacturing execution system software (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 achieved green manufacturing. With a 3,000 sqm PV plant on the rooftop, We have significantly reduced our reliance on fossil fuels and effectively cut carbon footprint during the manufacturing process. Our solar-powered production also translates into better efficiency and higher cost savings for our business. We are proud to be making a positive impact on the environment, and are committed to continuing to lead our sustainability practices to help build a better world for future generations.

Plant Size

3,000 m^2 | 362 kW_p | 240 kW_{ac} | 432 kWh

Estimated Annual Generation

398,200 kWh

Community Contribution per Year

309t CO_2 emission reduced

269 equivalent of trees planted

Turning the Office into a Green Space with Renewable Energy

We have implemented a sustainable office by installing a 1,050 sqm PV plant and a 448 kWh energy storage system on the rooftop. This strategic investment not only ensures an abundant supply of clean energy but also leads to substantial reductions in carbon emissions. This system features a robust 0 ms load side disruption function, ensuring uninterrupted power supply for the entire office, which provides each employee with a worry-free and green energy usage experience.

Plant Size

500 kW_{ac} 848 kWh 25 kW x 10

Estimated Annual Generation

421,080 kWh

Community Contribution per Year

420t CO_2 emission reduced

482 equivalent of trees planted

Where Quality Meets Perfection

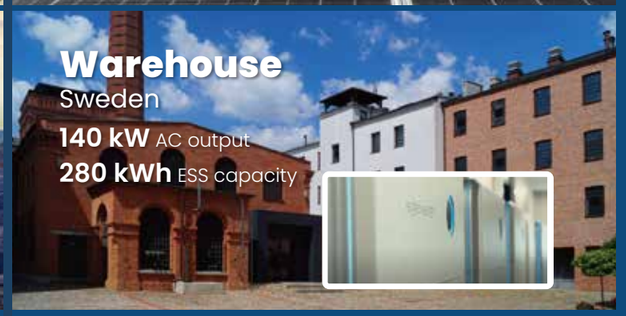
At Sigenergy, our unwavering commitment to putting the customer first is at the core of everything we do. We firmly believe that delivering top-quality products is paramount to ensuring customer satisfaction and building long-term relationships. With a relentless pursuit of excellence, we constantly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

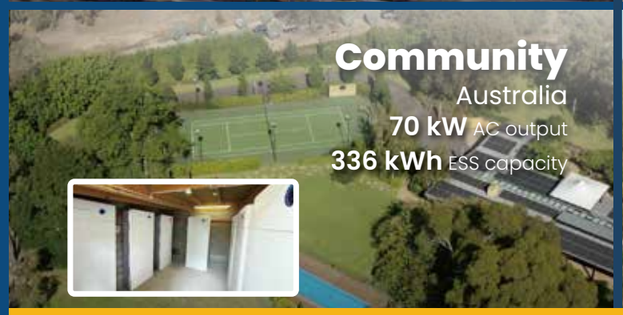
Manufacturing Execution System (MES)

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

SigenStor

Ideal for C&I BESS solution





5-in-One One for All

All business
from residential to C&I

All systems
from on-grid to micro-grid

All places
from somewhere to anywhere

Our systems are modular and easily stackable just like building blocks. Starting from 5 kWh for the energy storage battery, it can precisely match different capacity needs, flexibly adapt to various commercial and industrial application scenarios. Break the limitations of environmental requirements associated with traditional cabinet ESS. Enjoy quick and simple installation and commissioning for systems of all sizes.