

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

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 interface	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	39 (with 7.5m cable) / 41 (with 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	7.5 / 10		m
Function			
Authentication	RFID card / App / No authentication		
Smart Charging	Scheduled Charging	The system supports setting the charging start times	
	PV Surplus Charging	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			
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 Sigenery website.

Disclaimer: The information in this file is provided on an "as is" basis. To the fullest extent permitted by law, Sigenery Technology Co., Ltd. excludes all representations and warranties relating to this file and its contents or which is or may be provided by any affiliates or any other third party, including in relation to any inaccuracies or omissions in this file.



Factory Limited Warranty for SigenStor

(For Australia and New Zealand)

Limited Product Warranty

Sigenenergy Technology Co., Ltd. and its affiliates ("SIGENERGY") warrants that the hardware of electronics and enclosure will be free of defects caused by improper workmanship or defective materials. This Limited Product Warranty is valid only for the duration of the applicable "Warranty Period" defined in the table below and is subject to the following terms and conditions:

Covered Product	Covered Part*	Warranty Period
SigenStor	Sigen Battery	10 years
	Sigen Energy Controller	10 years
Accessories	Sigen Energy Gateway HomeMax	2 years
	Sigen Power Sensor	2 years
	Sigen Communication Module	2 years

*Installed on or after November 1st, 2023

*SigenStor series is the Sigen Energy Storage system which contains Sigen Battery and Sigen Energy Controller. The specific model numbers are "SigenStor-5S-5, SigenStor-5S-8, SigenStor-5S-10, SigenStor-5S-13, SigenStor-5S-16, SigenStor-6S-8, SigenStor-6S-10, SigenStor-6S-13, SigenStor-6S-16, SigenStor-6S-24".

Besides the above product, for vulnerable part such as strips light in decorative cover, the warranty period provided by SIGENERGY is 2 years.

Product Warranty commencing on the earlier of:

- The date of product be installed, activated and registered on site.
- The date of retailers' invoice or written documents (such as receiving note) to prove the time when product is delivered to the installation site.

If it can't be judged by the above two information, the warranty starting date shall be 6 months after the product was manufactured.

Limited Performance Warranty

SIGENERGY warrants that the battery system retains either seventy percent (70%) of Usable Energy for ten (10) years, or for a Minimum Through Output Energy which is calculated from the earlier of installation date. Whichever comes first:

**The term "Throughput Energy" is the total amount of energy a battery can be expected to deliver over its life

Covered Product	Usable Energy (kWh)	Minimum Throughput Energy**(MWh)
Sigen Battery 5 kWh	5.2	15.85
Sigen Battery 8 kWh	7.8	23.77

time.



The Battery usage must comply with the operating conditions under the specification and the installation manual supplied by SIGENERGY. For this Limited Warranty, Usable Energy is as measured and calculated using the following testing method and values:

Ambient temperature is between 25°C~ 28°C:

- (i) Discharge the battery with constant current until the battery reaches End of Discharge Voltage or its self-protective voltage.
- (ii) Wait for 10 minutes.
- (iii) Charge the battery with constant current until the battery reaches End of Charge Voltage or 100% SOC.
- (iv) Wait for 10 minutes.
- (v) Discharge the battery with constant current until it reaches End of Discharge voltage or its self-protective voltage. Record the amount of electricity released in the process as the Remaining Usable Energy of battery.

Test value list:

Product	End of Discharge Voltage (V)	End of Charge Voltage (V)	Constant current (A)
Sigen Battery 5 kWh	15	21.9	56
Sigen Battery 8 kWh	22.5	32.85	56

Precondition For Warranty

This Warranty is subject to the following conditions:

- (i) If the equipment is not to be installed or used immediately, the storage environment needs to meet the following conditions
 - a. Storage SOC: 20%-50%SOC. Charge and discharge the battery every 6 months.
 - b. Storage temperature: -25°C~35°C
 - c. Storage humidity: 5%RH~95%RH(no condensation). Do not install the battery if any moist or condensation is found.
 - d. Place the equipment in a cool place where away from direct sunlight and rain
 - e. Keep the equipment away from flammable, explosive, and corrosive matters
- (ii) The ambient temperature during the operation of the products shall not fall below 20°C or exceed 55°C.
- (iii) The battery system shall be installed by a skilled and trained installer.
- (iv) The Battery system installation location must be ventilated in accordance with the requirements of User Manual and Installation Guide.
- (v) To provide a ten-year limited warranty for inverter and battery, SIGENERGY will update your equipment with a remote firmware upgrade from time to time. These remote upgrades may briefly disrupt the operation of the appliance. By connecting your equipment to the internet, you agree that SIGENERGY may update the firmware of your equipment's features without further notice. If your equipment is not connected to the Internet for an extended period of time, we may not be able to complete such important upgrades. In this case, we may not be able to honor the above warranty commitment. However, we always provide a five-year warranty for inverter and battery, based on the date of first installation.

Claim Process

The claimant can make service request by creating and submitting service ticket to SIGENERGY via APP. Please follow the instructions and steps in “support” menu of mySigen APP. Generally, the mySigen APP will automatically collect the following information before claimant submit service ticket:

- (i) Contact information of claimant, including name of the person, phone number, email and address.
- (ii) Information regarding all defective system, including model No., serial number, installation date and failure date.
- (iii) Error message on APP screen and additional information regarding the fault/error.
- (iv) Description of trouble shooting actions before the failure and detailed information of previous problems.

Please make the claim within 30 days from the failure date, otherwise SIGENERGY will treat it as you have abandoned the right to make a warranty claim.

If this way is not available, please have above information to hand as it may be required when contacting the local installer or SIGENERGY’s national office.

In order to deliver a friendly and timely service, SIGENERGY is cooperating with many of distributors, installers and third-party service company all over the world. As such, please treat them as the default service channel of SIGENERGY; SIGENERGY will support and audit them to ensure they deliver a good service to customers.

SIGENERGY shall at its own discretion, remote diagnosis, modify and update software by Internet. Each time a warranty claim is made against the Products that have no internet connection, claimant is obliged to conduct an on-site inspection and data collection under the instruction of SIGENERGY. When there is hardware need to repair, SIGENERGY shall arrange an on-site replacement / exchange of hardware. The claimant is responsible for granting access, making time, and ensuring the safety of technician from SIGENERGY’s service partner.

Warranty Obligations

If a claim is received within the warranty period and a fault is discovered that is covered, SIGENERGY will, at its own discretion,

- (i) Fix the issue by changing configurations or updating software.
- (ii) Exchange the inverter/battery/charger system for a system that is brand new or refurbished but at least functionally equivalent to the original system, or an upgraded model which is either functionally equivalent or functionally superior to the original one.

If SIGENERGY repairs or replaces a product part, its warranty continues for the remaining portion of the Warranty Period or 6 Months from the date of the repair or replacement, whichever is greater.

In case of replacement, the product removed shall become the property of SIGENERGY.



If the system is found not to be covered by this Limited Warranty, SIGENERGY reserves the right to charge a handling fee.

The warranty can only be transferred from the original owner to next owner in case the device is still installed in the initial location.

Warranty Cover Range

Unless a special/unique agreement exists between SIGENERGY and customer, the limited warranty covers:

- (i) Hardware materials costs for necessary to reestablish trouble-free operation of the covered product.
- (ii) Labor cost relating to repairs, uninstalling and reinstalling of spare parts /products on-site, and basic travel cost.
- (iii) Shipment cost which is normal ground transportation and customs duties for spare parts replaced as well as the cost of sending allegedly defective unit back.

All other costs including but not limited to compensation from direct or indirect damages arising from the defective product, or loss of electrical power generated during the product downtime are NOT covered by the limited warranty.

General Exclusions

This Limited Warranty does not apply to circumstances from the following,

- (i) Damage caused by improper installment by the installer not following the installation instructions.
- (ii) Damage caused by improper use by the end user not following the user manual.
- (iii) Damage caused by willful conduct of users, authorized installers and certified third parties.
- (iv) Disassembly, repairs and replacement of parts by third -party/personnel not authorized by SIGENERGY.
- (v) Force majeure (storm damage, lightning strike, over-voltage, fire, thunderstorm, flooding, pests, etc.)
- (vi) Cosmetic issues, wear and tear, which will not adversely affect the proper functioning of the product.
- (vii) Damaged by software, interfacing, parts, supplies or other products not supplied by SIGENERGY.
- (viii) Damage caused during transport, exceeding of temperature range during use.
- (ix) Any rust that appears on the device's enclosure caused by harsh environmental conditions, accidents and external influences.
- (x) Vandalism, engraving, labels, irreversible marking or contamination or theft.
- (xi) The equipment is installed in coastal areas within 500 meters of the coastline.

Limitation of Liability

It is the end user's sole and exclusive remedy against SIGENERGY and SIGENERGY's sole and exclusive liability in respect of defects in product. This limited warranty*** replaces all other



SIGENERGY warranties and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort or otherwise, including, without limitation, and where permitted by applicable law, any implied conditions, warranties or other terms as regards satisfactory quality or fitness for purpose. However, this limited warranty shall neither exclude nor limit any of your legal (statutory) rights under the applicable national laws. To the extent permitted by applicable law(s), SIGENERGY does not assume any liability for any loss of, damage to or corruption of data, for any loss of profit, loss of use of battery systems or functionality, loss of business, loss of contracts, loss of revenue or loss of anticipated savings, increased costs or expenses or for any indirect loss or damage, consequential loss or damage or special loss or damage, or punitive loss or damage. To the extent permitted by applicable law, SIGENERGY's liability shall be limited to the purchase value of the battery system. The above limitations shall not apply in case of gross negligence or intentional misconduct of SIGENERGY or in case of death or personal injury resulting from SIGENERGY's proven negligence.

*** In some countries/districts, end users may receive an additional warranty promise (should be at least equivalent to the manufacturer's warranty) which is provided by SIGENERGY's local distributor; should any claims arise in this respect, please direct them to the local distributor. Please note this SIGENERGY limited warranty statement may NOT be the latest version, please refer to the latest version of the SIGENERGY limited warranty by visiting global website.

Important Note: Australian Consumer Law

If you have purchased your product in Australia, you should be aware that:
This warranty is provided in addition to other rights and remedies held by a consumer at law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

China Contact Information

Company: Shanghai SIGEN New Energy Technology Co.,Ltd.

Address: No.175 Weizhan Road,Lingang New Area,China(Shanghai)Pilot Free Trade Zone
Shanghai P.R.China.

Email: service@sigenergy.com

www.sigenergy.com

Tel: +86 (021) 61000956

Australia Importer information

Company: Sigenergy Australia Pty Ltd.

Address: Suite 02, Level 7, 191 Clarence Street, Sydney, NSW 2000, Australia

Email: service.au@sigenergy.com

www.sigenergy.com/au

Tel: +61 400 756 464



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Covered Product*	Covered Part	Warranty Period
SigenStor**	Sigen Battery	10 years
	Sigen Energy Controller	10 years
	Sigen EV DC Charging Module	3 years

*Installed on or after November 1st, 2023

**SigenStor series is the Sigen Energy Storage system which contains Sigen Battery, Sigen Energy Controller and Sigen EV DC Charging Module. The specific model numbers are "SigenStor-5S-5, SigenStor-5S-8, SigenStor-5S-10, SigenStor-5S-13, SigenStor-5S-16, SigenStor-6S-8, SigenStor-6S-10, SigenStor-6S-13, SigenStor-6S-16, SigenStor-6S-24".

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SIGENERGY warrants that the battery system retains either seventy percent (70%) of Usable Energy for ten (10) years, or for a Minimum Through Output Energy which is calculated from the earlier of installation date. Whichever comes first:

**The term "Throughput Energy" is the total amount of energy a battery can be expected to deliver over its life

Covered Product	Usable Energy (kWh)	Minimum Throughput Energy**(MWh)
Sigen Battery 5 kWh	5.2	15.85
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time.

The Battery usage must comply with the operating conditions under the specification and the installation manual supplied by SIGENERGY. For this Limited Warranty, Usable Energy is as measured and calculated using the following testing method and values:

Ambient temperature is between 25°C~ 28°C:

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Sigen Battery 5 kWh	15	21.9	56
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Precondition For Warranty

This Warranty is subject to the following conditions:

- (i) If the equipment is not to be installed or used immediately, the storage environment needs to meet the following conditions

- a. Storage SOC: 35%-45%SOC.
- b. Storage temperature: -25°C~60°C
- c. Recharge period:

Storage temperature requirement	Actual storage temperature	Recharge period
-25°C < T ≤ 60°C	T ≤ -25°C	Not allowed
	-25°C < T ≤ 25°C	15 months
	25°C < T ≤ 35°C	9 months
	35°C < T ≤ 60°C	6 months
	60°C < T	Not allowed

- d. Storage humidity: 5%RH~95%RH(no condensation). Do not install the battery if any moist or condensation is found.
- e. Place the equipment in a cool place where away from direct sunlight and rain
- f. Keep the equipment away from flammable, explosive, and corrosive matters
- (ii) The ambient temperature during the operation of the products shall not fall below -20°C or exceed 55°C. The operation and service life of battery are related to the working temperature. Please install the battery at a temperature equal to or better than the ambient temperature. The recommended working temperature for battery is 10° C ≤ T ≤ 35° C.
- (iii) The battery system shall be installed by a skilled and trained installer.



(iv) The Battery system installation location must be ventilated in accordance with the requirements of User Manual and Installation Guide.

(v) To provide a ten-year limited warranty on the inverter and battery, SIGENERGY will update your equipment with a remote firmware upgrade from time to time. These remote upgrades may briefly disrupt the operation of the appliance. By connecting your equipment to the internet, you agree that SIGENERGY may update the firmware of your equipment's features without further notice. If your equipment has not been connected to the Internet for a month, we will notify you to connect your equipment to the Internet. If the equipment continues to be disconnected for an extended period of time. In this case, we may not be able to honor the full ten-year warranty commitment. However, we always provide a five-year warranty based on the date of first installation.

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- (xi) The equipment is installed in coastal areas within 500 meters of the coastline.

Limitation of Liability

It is the end user's sole and exclusive remedy against SIGENERGY and SIGENERGY's sole and exclusive liability in respect of defects in product. This limited warranty*** replaces all other SIGENERGY warranties and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort or otherwise, including, without limitation, and where permitted by applicable law, any implied conditions, warranties or other terms as regards satisfactory quality or fitness for purpose. However, this limited warranty shall neither exclude nor limit any of your legal (statutory) rights under the applicable national laws. To the extent permitted by applicable law(s), SIGENERGY does not assume any liability for any loss of, damage to or corruption of data, for any loss of profit, loss of use of battery systems or functionality, loss of business, loss of contracts, loss of revenue or loss of anticipated savings, increased costs or expenses or for any indirect loss or damage, consequential loss or damage or special loss or damage, or punitive loss or damage. To the extent permitted by applicable law, SIGENERGY's liability shall be limited to the purchase value of the battery system. The above limitations shall not apply in case of gross negligence or intentional misconduct of SIGENERGY or in case of death or personal injury resulting from SIGENERGY's proven negligence.

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China Contact Information

Company: Shanghai SIGEN New Energy Technology Co.,Ltd.

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