

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 | | |

- 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 Sigenenergy website.

Disclaimer: The information in this file is provided on an "as is" basis. To the fullest extent permitted by law, Sigenenergy 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.