Sigen EV DC Charging Module

- Upgradeable from 12.5 kW to 25 kW for higher demand*
- World's first V2X-integrated all-in-one home energy system
- Max. 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



*This upgrade is only available for specific models. For more details, please contact Sigenergy official support or local distributors.

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SigenStor EVDC [1]		12 [2]		Units
Operational mode		**Standard mode**	**License boost mode**	
DC Charging				
Max. charging power of charging port		12.5 [2]	25	kW
Max. discharging power of charging port		12.5 [2]	25	kW
Operation voltage range		150 ~ 1000		V
Max. operation current		40 [2]	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 [3]		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 [4]		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 [5], Smart load management		
User interfaces		LED indicator, App, RFID		
Remote function		OTA, Remote diagnostics		
OCPP protocol		OCPP 1.6J ED 2		
Standard Compliance				
Standard [6]		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 SigenStor EVDC 12 model can be upgraded to 25 kW. End users can purchase a license via Sigen Mall or local distributors to increase the charging port's maximum charging/discharging power from 12.5 kW to 25 kW, and the maximum operating current from 40 A to 80 A. This upgrade is only available for specific models. For more information, please contact official Sigenergy support or your local distributor.
3. The net weight includes the CCS2 cable-assembly also, but excludes the exteriors, wall-mounting fixtures and the related attachments.
4. 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.
5. 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.
6. For all standards refer to the certificates category on the Sigenergy website.

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