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

*This function needs to be used with Sigen Power Sensor.

Sigen EV AC Charger 7 / 11 / 22 kW

Sigen EVAC		7	11	22	Units
AC Input & Output					
Nominal charging power		7	11	22	kW
Nominal output voltage		220 ~ 240 1W+N+PE	220 ~ 240 / 380 ~ 415 3W+N+PE	220 ~ 240 / 380 ~ 415 3W+N+PE	V
Output current range		6 ~ 32	6 ~ 16	6 ~ 32	A
Nominal AC frequency		50 / 60			Hz
Vehicle connection		Type 2 connector / Type 2 socket with shutter			
AC input cable width range		2.5 ~ 6.0			mm^2
Protection					
Integrated RCD-PD fault detection [1]		AC 30 mA + DC 6 mA			
Flame retardant rating		UL94-5VB			
Safety protection		OVP, UVP, OCP, OTP			
PEN protection		Supported			
Randomized charging delay		Supported			
Ground fault protection		Supported			
Surge protection		Supported			
Grounding system		TT, TN, IT			
User Interface & Communication					
Protocol		RS485, Modbus RTU			
Communication		4G / WLAN / Fast Ethernet			
Authentication		RFID card / App / Auto-charge (no authentication)			
Display		LED indicator / App			
Smart Charging [2]	Smart Schedule	Schedule your charging time, charging frequency and charging mode which switching between PV surplus charging and Fast charging.			
	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	The system draws power from the grid and PV simultaneously for the fastest charging speed and also supports additional Battery Boost Charging.			
Metering		External meter with RS485 / Integrated metering IC			
Dynamic load management [3]		Supported			
Phase switching		Supported			
Third-parties inverter PV surplus charging [3]		Supported			
OCPP protocol		OCPP 1.6J ED 2			
General Data					
Dimensions (W / H / D)		234 / 384 / 139			mm
Weight (case B / case C)		4.5 / 6.4			kg
Storage temperature range		-40 ~ 70			°C
Operating temperature range		-30 ~ 55			°C
Relative humidity range		5% ~ 95%			
Max. operating altitude		4000			m
Cooling		Natural convection			
Ingress protection rating		IP65			
Installation method		Wall-mounted			
Application environment		Outdoor / Indoor			
Standby self-consumption		< 3.6			W
Standard charging cable length		5			m
Cable entries		Bottom, Top and Rear cable entries			
Standard Compliance					
Standard [4]		EN IEC 61851-1, IEC 62955, EN IEC 61851-21-2, ETSI EN 300 330 V2.1.1, ETSI EN 301 511 V12.5.1, EN IEC 62311, EN50665, ETSI EN 300 328 V2.2.2, EN 18031-1			

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.
3. This function needs to be used with Sigen Power Sensor.
4. For all standards refer to the certificates category on the Sigenergy website.

SIGENERGY

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 Sigenergy website.