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 DC fault detection [1]		6			mA
Integrated AC fault detection [1]		30			mA
Flame retardant rating		UL94-5VB			
Over / Under voltage protection		Supported			
Overload protection		Supported			
Over temperature protection		Supported			
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	Smart Schedule	The system supports setting the charging start and stop times, charging frequency, and charging mode. Each scheduled time slot allows the charging mode to be set separately between PV Surplus charging and Fast Charging.			
	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.			
Metering		External meter with RS485 / Integrated metering IC			
Dynamic load management [3]		Supported			
Phase switching		Supported			
OCPP protocol		OCPP 1.6J ED 2			
General Data					
Dimensions (W / H / D)		234 / 384 / 126			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
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			

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 or third - party inverter + Sigen Power Sensor.
3. This function needs to be used with Sigen Power Sensor.
4. For all standards refer to the certificates category on the Sigenergy website.

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