

# 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



# Sigen EV AC Charger 7 / 11 / 22 kW

Sigen EVAC	7	11	22	Units			
<b>AC Input &amp; Output</b>							
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 <sup>2</sup>			
<b>Protection</b>							
Integrated DC fault detection <sup>1</sup>	6			mA			
Integrated AC fault detection <sup>1</sup>	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						
<b>User Interface &amp; Communication</b>							
Protocol	RS485, Modbus RTU						
Communication	4G / WLAN / Fast Ethernet						
Authentication	RFID card / App / Auto-charge (no authentication)						
Display	LED indicator / App						
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.						
Smart 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 <sup>3</sup>	Supported						
Phase switching	Supported						
OCPP protocol	OCPP 1.6J ED 2						
<b>General Data</b>							
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			
<b>Standard Compliance</b>							
Standard <sup>4</sup>	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.