New

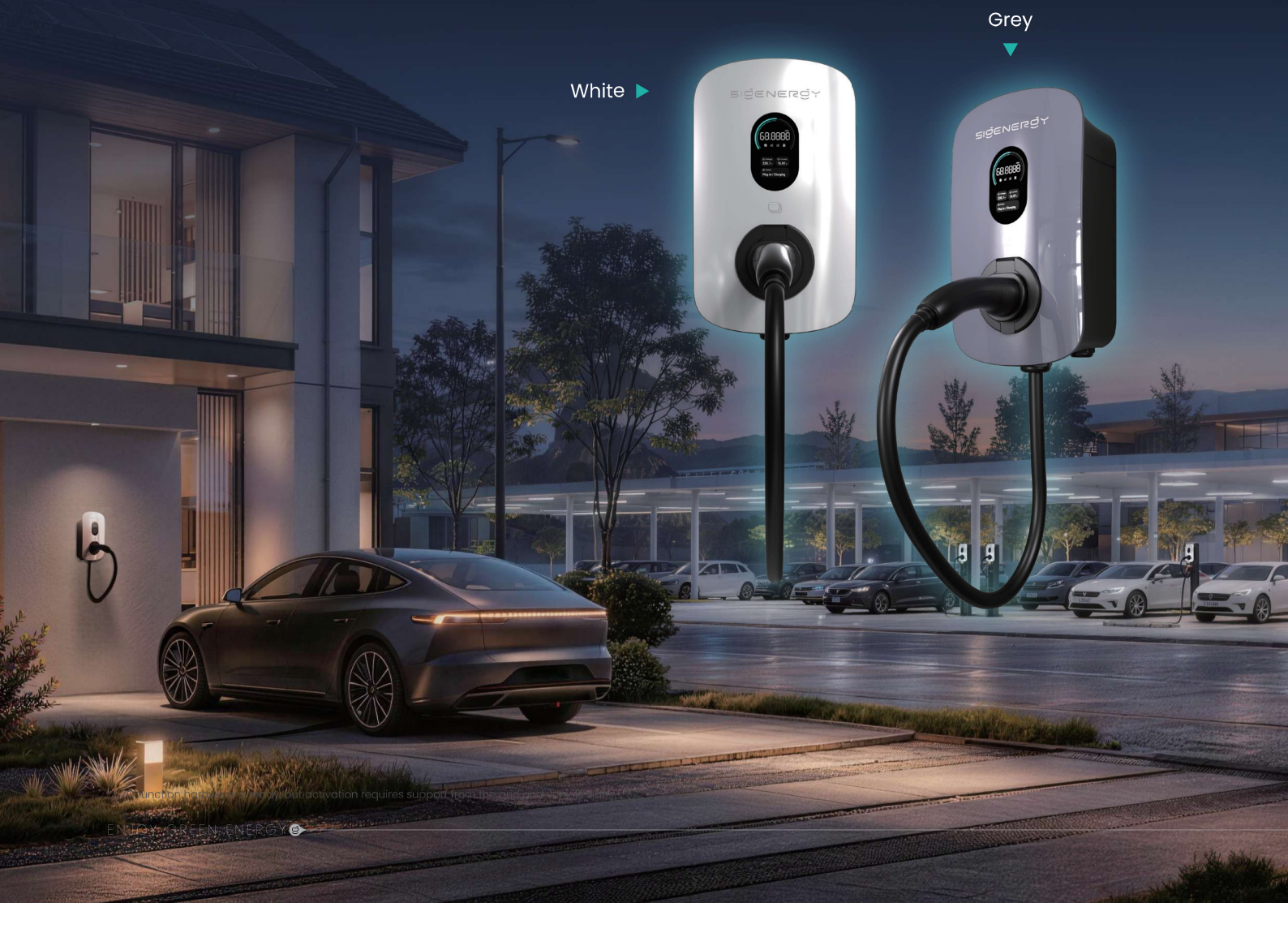
Sigen EVAC Charger G2

Next-Level Residential Charging

- V2X bi-directional charging with black start, unlocking more possibilities*
- 100% Green power charging with Sigenergy home energy solution
- Enable dynamic tariff & Sigen AI mode for smarter scheduling

Also for Commercial Charging Stations

- MID & PTB compliant metering with AFIR-ready, ISO 15118-supported
- LED display, supporting real-time info. & dynamic QR code payments
- Compatible with Sigenergy ESS for virtual expansion without overload
- Built for up to 100 chargers with station-level dynamic load mgmt.



Sigen EV AC Charger G2 7 / 11 / 22 kW

Preliminary

Sigen EVAC G2		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		4.0 ~ 16.0			mm^2
Protection					
Integrated residual current protection device [1]		Type A RCD + DC 6mA RDC-PD			
Flame retardant rating		UL94-5VB			
Safety protection		OVP, UVP, OCP, OTP			
Randomized charging delay		Supported			
Fault ride through protection		UVRT, OVRT, UFRT, OFRT, Islanding protection (including active method according to EN 62116) etc.			
Trip-free mechanism		Test Button			
Grounding system		TT, TN, IT			
User Interface & Communication					
Protocol		RS485, Modbus RTU			
Communication		4G / WLAN / Fast Ethernet / Sub1G			
Authentication		RFID card / App / Auto-charge (no authentication)			
Display		Color display / 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		Class B MID Certified integrated Active Energy Meter			
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 / Pedestal-mounted			
Application environment		Outdoor / Indoor			
Standby self-consumption		< 3.6			W
Standard charging cable length		5 / 7.5			m
Cable entries		Bottom and Rear cable entries as well as Top dedicated cable routing path			
Standard Compliance					
Standard [4]		EN IEC 61851-1, IEC 62955, EN IEC 61851-21-2, EN 18031-1, EN IEC 61439-7, EN 50470-3, REA 6A, PTB50.7, Grid code regulation (Including new VDE-AR-N 4105:2026, VDE-AR-N 4100:2026 and OVE-Richtline R37:2024)			

1. Type A residual current protective device certified according to IEC 61008-1. Residual direct current protective device (RDC-PD) with integrated AC pulsating DC and 6mA DC detection, evalution and mechanical switching in the Sigen EVAC Charger G2 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.

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Version: 20260522