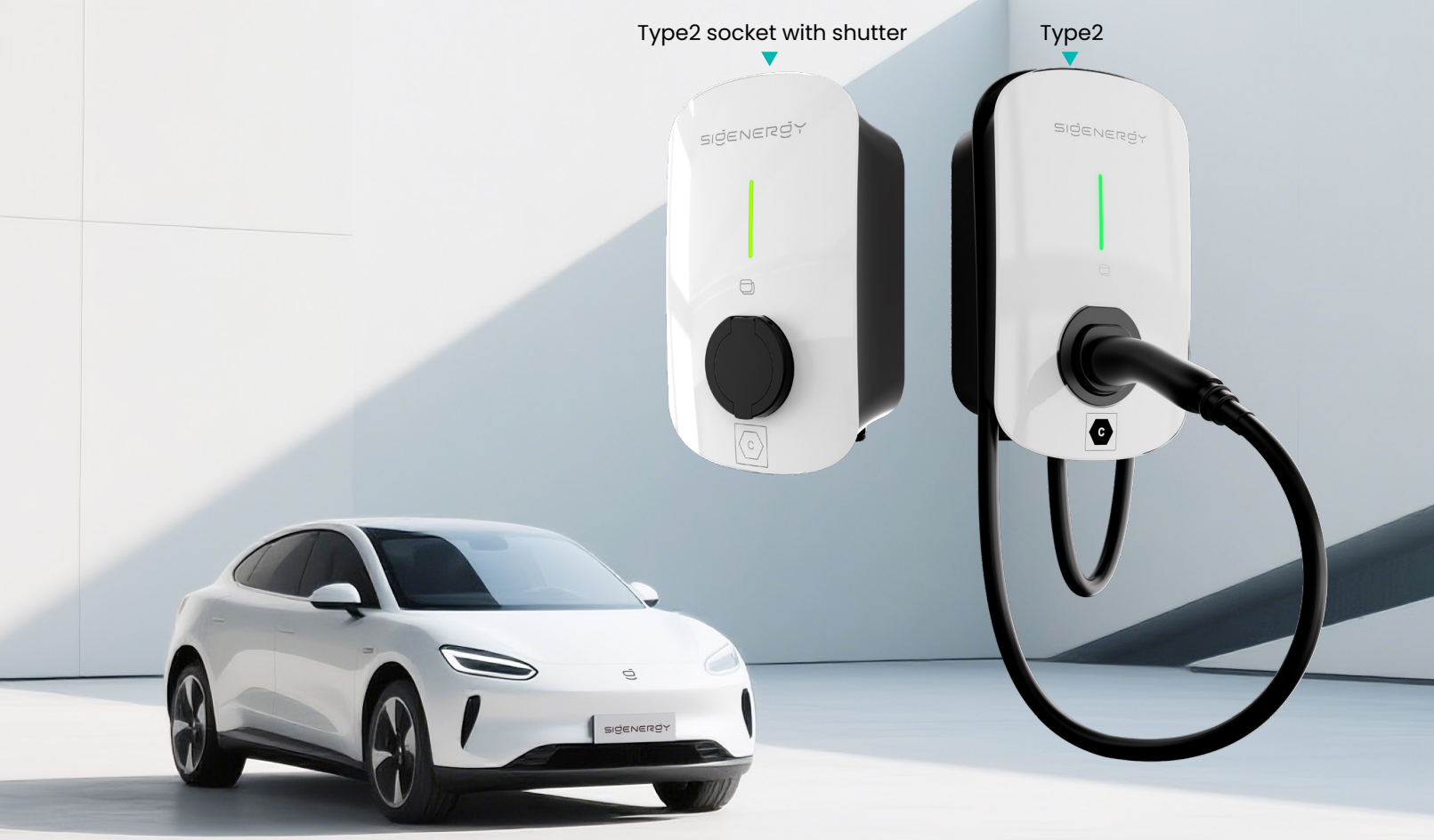
# Sigen EVAC Charger

- 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<br>1W+N+PE | 220 ~ 240 / 380 ~ 415<br>3W+N+PE | 220 ~ 240 / 380 ~ 415<br>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 / 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 | | | |

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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