

EV CHARGER DATA SHEET

Sigenergy Sigen EV AC Charger

Integrated solar and home-energy charging for SigenStor-compatible systems.



Product configuration

Sigen EVAC 7, Sigen EVAC 11 and Sigen EVAC 22; connector/socket variants.

Perfect for:

Homes with SigenStor solar and battery systems requiring one integrated app and energy-management platform.

- ✓ Available in 7 kW, 11 kW and 22 kW AC models.
- ✓ Green-power charging, Solar Boost and Fast charging modes with Sigenergy home energy solution.
- ✓ Dynamic load management with a compatible Sigen Power Sensor.

7 / 11 / 22 kW

AC charging options

6-32 A

Model-dependent range

IP65

Indoor/outdoor rating

OCPP 1.6J

Smart charging protocol

Product configuration

Component	Selected model / description
Charger	1 x Sigen EV AC Charger
Output variants	7 kW 1P, 11 kW 3P or 22 kW 3P
Vehicle connection	Type 2 connector or Type 2 socket with shutter
Monitoring	mySigen App, LED indicator and integrated metering IC
Solar integration	100% PV charging, Solar Boost and Fast charging with SigenStor
Load management	Supported with additional Sigen Power Sensor

IMPORTANT DESIGN NOTE

Some functions require SigenStor or an additional Sigen Power Sensor. Phase switching and solar charging behaviour must be verified against the exact model, site phase arrangement, firmware and Australian product approval.

1. TECHNICAL SPECIFICATIONS

Sigenergy Sigen EV AC Charger

Consolidated manufacturer specifications for preliminary design and customer information.

Electrical specifications

Electrical parameter	Reference value
Nominal charging power	7 kW, 11 kW or 22 kW
Nominal voltage	220-240 V 1P; 220-240 / 380-415 V 3P
Output current range	7 kW: 6-32 A; 11 kW: 6-16 A; 22 kW: 6-32 A
Frequency	50 / 60 Hz
Vehicle connection	Type 2 connector or Type 2 socket with shutter
Input cable range	2.5-6.0 mm ² stated by manufacturer
Integrated residual detection	6 mA DC and 30 mA AC
Grounding systems	TT, TN and IT stated in manufacturer reference

General, environmental and communications data

General parameter	Reference value
Dimensions	234 x 384 x 126 mm
Weight	4.5 kg socket / 6.4 kg tethered (case dependent)
Cable length	5 m standard tethered cable
Operating temperature	-30 C to +55 C
Storage temperature	-40 C to +70 C
Protection	IP65; natural-convection cooling
Communications	4G, WLAN, Fast Ethernet, RS485 / Modbus RTU
Authentication	RFID card, app or automatic charging

Smart and energy-management features

- ✔ 100% PV charging, Solar Boost and Fast charging modes
- ✔ mySigen App scheduling, energy tracking and remote control
- ✔ Dynamic load management with Sigen Power Sensor
- ✔ Phase switching supported
- ✔ OCPP 1.6J Edition 2 compatibility

2. INSTALLATION, COMMISSIONING AND HANDOVER

Sigenergy Sigen EV AC Charger

Installer-focused design checks for a compliant hard-wired Australian installation.

Installation and commissioning review

Check	Included / expected	Site-dependent requirement
Supply and phase	Select 7 kW 1P, 11 kW 3P or 22 kW 3P model to suit supply and vehicle.	Confirm available current and phase configuration at the main switchboard.
Protection	Coordinate upstream circuit protection with integrated 30 mA AC and 6 mA DC protection.	Confirm requirements in the current Australian installation manual.
Energy integration	Connect to SigenStor for solar modes or install Sigen Power Sensor for dynamic control.	Confirm RS485/meter wiring and device addressing.
Communications	Configure WLAN, Ethernet or 4G and mySigen account.	OCPP configuration is optional and project dependent.
Commissioning	Set current limit, charging mode, phase switching, authentication and battery cut-off logic.	Test load-management response and customer app visibility.

Standard installation and handover scope

Function	Included / expected	Site-dependent requirement
Mounting and cable route	Secure wall mounting, compliant cable support and mechanical protection.	Wall construction, exposure, conduit route, penetrations and mounting height.
AC connection	Dedicated hard-wired connection to the switchboard with labelled isolation/protection.	Service capacity, phase allocation, voltage drop and switchboard condition.
Testing	Polarity, earth continuity, insulation, protective-device operation and functional charge test.	Vehicle availability, test adapter and manufacturer commissioning process.
Online monitoring	App/portal setup, owner account and basic operating demonstration.	Stable internet, mobile coverage or OCPP backend credentials.
Documentation	Equipment schedule, settings, serial number, photos and customer handover records.	Network/DNSP requirements, warranty registration and site-specific certificates.

AUSTRALIAN INSTALLATION NOTE

Installation must be completed by a licensed electrician in accordance with current Australian wiring rules, manufacturer instructions, product approval conditions and the requirements applying to the premises. Cable sizing, protection, RCD/RDC-DD coordination, earthing, load management and phase selection are final engineering decisions, not fixed package assumptions.

3. SOURCES, WARRANTY AND COMPLIANCE NOTES

Sigenergy Sigen EV AC Charger

Manufacturer references must be checked again before quotation, ordering and installation.

Manufacturer reference documents

1. Sigenergy Australia - Home Energy Solution Brochure, Sigen EV AC Charger section

Open official manufacturer source

2. Sigenergy - Sigen EV AC Charger product datasheet

Open official manufacturer source

3. Sigenergy - mySigen application documentation

Open official manufacturer source

Final pre-quotation and procurement checklist

Check	Required confirmation
Exact product identity	Confirm model suffix, power rating, phase configuration, connector/cable option, hardware revision and RCM approval.
Vehicle compatibility	Confirm Type 2 compatibility and the EV onboard AC charging limit.
Site and switchboard	Confirm available supply capacity, phase arrangement, main switchboard condition, cable route and load profile.
Protection and cabling	Finalise breaker/RCD/RDC-DD coordination, cable sizing, voltage drop, earthing, isolation, labelling and mechanical protection.
Smart energy features	Confirm meters/CTs, solar integration, load-management hardware, communications and backend subscriptions.
Warranty and handover	Verify Australian warranty terms, register the product, provide serials/settings and demonstrate app operation.

Warranty wording

WARRANTY

The referenced Sigenergy technical brochure does not state a charger warranty duration. Verify the current Australian Sigen EV AC Charger warranty document, registration process and supplier conditions before quoting a warranty period.

Technical and commercial disclaimer

IMPORTANT

This HI-PRO document is a consolidated technical reference and marketing-support sheet. It is not the manufacturer datasheet, a construction drawing, a final circuit design or a substitute for current installation manuals. Specifications, firmware, approvals, accessories and warranty terms can change without notice. Final equipment selection and installation must be confirmed after site inspection and must comply with all applicable Australian requirements and manufacturer instructions.

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