

EV CHARGER DATA SHEET

Ocular IQ Home Solar

Australian-market solar EV charger with included CT sensing and OCPP connectivity.



Product configuration

IOCAH30 series: 7TE, 22TE, 7SE and 22SE variants.

Perfect for:

Australian solar homes wanting Solar Only, Solar Assist and Fast charging modes with app monitoring.

- ✓ Available in 7.2 kW single-phase and 22 kW three-phase models.
- ✓ Socket or tethered Type 2 versions; tethered version includes a 5 m cable.
- ✓ Current transformers are included for solar monitoring and household load control.

7.2 / 22 kW

Single / three-phase

32 A

Maximum per phase

IP55 / IK10

Environmental protection

3 years

Published warranty

Product configuration

Component	Selected model / description
Charger	1 x Ocular IQ Home Solar
Output variants	7.2 kW single-phase or 22 kW three-phase
Vehicle connection	5 m Type 2 tethered cable or Type 2 socket
Solar / load control	1 CT for 1P model or 3 CTs for 3P model; included
Monitoring	Ocular Smart Home app; integrated energy meter
Communications	Ethernet, Wi-Fi, 4G, OCPP and Modbus TCP/IP

IMPORTANT DESIGN NOTE

The manufacturer recommends a 40 A Type A RCBO in its current datasheet. Final circuit design, discrimination, cable sizing and protection must be determined by the licensed electrician for the site and exact model.

1. TECHNICAL SPECIFICATIONS

Ocular IQ Home Solar

Consolidated manufacturer specifications for preliminary design and customer information.

Electrical specifications

Electrical parameter	Reference value
Power output	7.2 kW 1P or 22 kW 3P
Input/output voltage	230 V +/-20% or 400 V +/-20%
Maximum current	32 A per phase
Recommended circuit breaker	40 A Type A RCBO (manufacturer datasheet)
Frequency	50 / 60 Hz
Internal residual protection	30 mA AC and 6 mA DC leakage detection
EV connection	5 m Type 2 cable or Type 2 socket
Energy meter	Integrated meter

General, environmental and communications data

General parameter	Reference value
Dimensions	398 x 285 x 226 mm
Net weight	Tethered: 4.5 / 4.7 kg; socket: 1.5 / 1.7 kg
Operating temperature	-30 C to +50 C
Storage temperature	-40 C to +70 C
Humidity	5-95% RH, non-condensing
Protection	IP55 / IK10
Certification stated	CE, IEC/EN references and RCM
Warranty	3 years; extended warranty options may be available

Smart and energy-management features

- ✔ Solar Only, Solar Assist and Fast charging modes
- ✔ Included CTs for surplus solar measurement and load balancing
- ✔ RFID, mobile app, physical button or plug-and-charge start methods
- ✔ OCPP 1.6J and OCPP 2.0.1 compatibility; firmware conditions apply
- ✔ Charging schedules and solar/grid energy tracking

2. INSTALLATION, COMMISSIONING AND HANDOVER

Ocular IQ Home Solar

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 the 7.2 kW single-phase or 22 kW three-phase model.	Confirm supply capacity and vehicle charge limit.
Circuit protection	Manufacturer datasheet recommends a 40 A Type A RCBO.	Final selection must satisfy the exact site and Australian requirements.
CT installation	Install 1 CT for single-phase or 3 CTs for three-phase solar/load control.	Standard signal line is 20 m and can be extended as specified.
Communications	Connect Ethernet, Wi-Fi or 4G and configure OCPP only where required.	Verify signal and customer account/app access.
Commissioning	Set output current, solar mode, load control and authentication method.	Test CT direction, solar-only operation and maximum-load response.

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

Ocular IQ Home Solar

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

Manufacturer reference documents

1. Ocular IQ Home Solar Datasheet, Version 3.1

[Open official manufacturer source](#)

2. Ocular Charging - IQ Home Solar product page and operating modes

[Open official manufacturer source](#)

3. Ocular Charging - Product Resources

[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

Ocular states a 3-year warranty for the IQ Home Solar, with extended warranty options available. Confirm the exact warranty certificate, registration and supplier terms for the model supplied.

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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