OCULAR

IQ Home Solar



Welcome to the future of charging with the IQ Home Solar, our compact, solar charging solution is designed to meet the needs of modern electric vehicle owners, offering versatility, efficiency, and convenience at their doorstep.

MAIN FEATURES

Unique Design
Compact design with LED status indicator

Flexible Output Current
Output current can be permanently adjusted during set up, or temporary adjusted through the Smart Home App

Current Transformers Included
Monitor excess solar energy production and automatic household load balancing

Ocular Smart Home App
Comes with a free home OCPP app to fully manage your solar charger

A Charger to Suit Every Home
1-phase (7kW) & 3-phase (22kW) models available

- OCPP 1.6, 2.0.1 compatible
- Available in socket or tethered models
- Schedule charging sessions
- Advanced solar capability
- Monitor, track & analyse charging activity



Version 3.2 - *28OCT2026*

SPECIFICATION				
Model Number	IOCAH30-7TE-CRW4	IOCAH30-22TE-CRW4	IOCAH30-7SE-CRW4	IOCAH30-22SE-CRW4
Power				
Power Output	7.2kW (1-Phase)	22kW (3-Phase)	7.2kW (1-Phase)	22kW (3-Phase)
EV Charging Connector	5m Type-2 Cable		Type-2 Socket	
Input and Output Voltage	230V ± 20%	400V ± 20%	230V ± 20%	400V ± 20%
Input and Output Current	32A max per phase			
Recommended Circuit Breaker	40A type A RCBO			
Frequency (Hz)	50/60Hz			
Current Transformers (CT) for Solar and Load Control				
CTs Included	1	3	1	3
CT Length of Signal Line	20m (Extendable up to 100m with insulated twisted pair cable)			
CT Primary Rated Current	100A max current			
CT Internal Diameter	16mm (fits max cable size 50mm^2 XLPE)			
User Interaction				
Display	LED indication lights			
RFID Reader	ISO14443 Type A cards compatible			
Charger Control Method	Mobile app, physical button, RFID, start on plug			
Safety				
Internal RCD	30mA AC & 6mA DC Leakage			
Electrical Protection	Over current, Short circuit, Over voltage, Under voltage, Ground fault, Lightning surge, Over temperature			
Communication				
OCPP	1.6J and 2.0.1 (Firmware upgrade required)			
Internet Connection	Ethernet, Wi-Fi, 4G (4G only available on 22kW tethered version)			
Additional Communication Type	Modbus (TCP/IP)			
Energy Meter	Integrated Meter			
Load Control	Compatible with Ocular Load Controller or OCPP smart profiles			
General Data				
Ambient Air Temperature for Operation	-30°C to +50°C in operation			
Ambient Air Temperature for Storage	-40°C to +70°C in storage			
Working Humidity	5% - 95% relative humidity, non-condensing			
IP Performance	IP55, IK10			
Mounting	Wall Mount			
Dimension (H x W x D, mm)	398 * 285 * 226 mm			
Net Weight	4.5 kg	4.7 kg	1.5 kg	1.7 kg
Certification	CE, IEC /EN 61851-1, IEC 61008-1-A1, IEC 62955-1-A1, IEC/EN 61851-21-2, IEC 62196-2, RCM			
Warranty	3 Years (Extended warranties available)			

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OPEN CHARGE ALLIANCE

OPEN CHARGE POINT INTERFACE

ocularcharging.com.au sales@ocularcharging.com.au 1300 912 650