OCULAR

IQ Solar

Fast, sustainable and compatible with every EV in Australia. Meet the Ocular IQ Solar. The Ocular IQ Solar is an intelligent solution to utilise your home solar system. Use all the power you produce instead of exporting to the grid.

MAIN FEATURES

Unique Design
The 2.8" LCD display gives instant feedback on the charging status

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
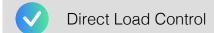Comes with a free home OCPP app to fully manage your solar charger

A charger to suit every home
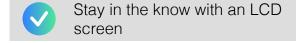1-phase (7kW) & 3-phase (22kW) models available with either a socket or a tethered 5 meter cable with Type 2 connector

IOCAH13-7S-SOLAR/ IOCAH13-7T-SOLAR
IOCAH13-22S- SOLAR/ IOCAHI3-22T-SOLAR

✅ OCPP 1.6 and 2.0.1 compatible

✅ Direct Load Control

✅ Ocular Smart Home App

✅ Indoor and Outdoor Rated

✅ Stay in the know with an LCD screen

Version 2.2

SPECIFICATION				
Model Number	IOCAH13-7S-SOLAR	IOCAH13-7T-SOLAR	IOCAH13-22S-SOLAR	IOCAH13-22T-SOLAR
Power				
Power Output	7.2kW (1-Phase)		22kW (3-Phase)	
EV Charging Connector	Type-2 Socket	5m Type-2 Cable	Type-2 Socket	5m Type-2 Cable
Input and Output Voltage	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	
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	2.8" LCD Screen + LED indication lights			
RFID Reader	ISO14443 Type A cards compatible			
Charger Control Method	Mobile App, physical button, RFID, plug and charge			
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			
Communication Type	Modbus (TCP/IP)			
Energy Meter	MID Meter			
Load Control	Compatible with Ocular Load Controller or OCPP smart profiles			
General Data				
Ambient Air Temperature for Operation	-30°C to +50°C			
Ambient Air Temperature for Storage	-40°C to +70°C			
Working Humidity	5% - 95% relative humidity, non-condensing			
IP Performance	IP55			
Mounting	Wall Mount/Pole Mount			
Dimension (H x W x D, mm)	380 x 288 x160 mm			
Net Weight	4.3 kg	7.8 kg	5.4 kg	8.1 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	2 Years (Extended warranties available)			