

# 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



5 meter cable with Type-2 connector



Schedule charging sessions



Advanced solar capability



Monitor, track & analyse charging activity



SPECIFICATION		
Model Number	IOCAH30-7TE-RW	IOCAH30-22TE-RW
Power		
Power Output	7.2kW (1-Phase)	22kW (3-Phase)
EV Charging Connector	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 <sup>2</sup> XLPE)	
User Interaction		
Display	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	Integrated Meter	
Load Control	Compatible with Ocular Load Controller or OCPP smart profiles	
General Data		
Ambient Air Temperature for Operation	-30 to +50	
Ambient Air Temperature for Storage	-40 to +70	
Working Humidity	5% - 95% relative humidity, non-condensing	
IP Performance	IP55	
Mounting	Wall Mount	
Dimension (H x W x D, mm)	398 * 285 * 226 mm	
Net Weight	4.5 kg	4.7 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	2 Years (Extended warranties available)	

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