



Specification of Enviro EV Eco

Enviro EV Eco



FUNCTIONS

- **Smart Charging Regulation:** Meets UK government's smart charging regulations.
- **NFC Activation:** Enables direct control of the charging station with authorised smartphones.
- **Local Energy Management System:** Supports local home load management and solar power system connections, ensuring home electricity safety.
- **Secure Connections:** Supports OCPP 1.6J and security standards, safeguarding your charging network.
- **ModBus Communications:** Compatible with any third-party energy management system via TCP/RTU protocols.
- **Load Sharing:** Supports controller/receiver configurations, capable of powering up to 10 stations within a single control network.

APPEARANCE STRUCTURE

- **Design:** Blends perfectly into any installation environment with its versatile aesthetic.
- **Flexible Configuration:** Tethered or Untethered designs to meet diverse user needs.
- **Push-to-Install Convenience:** Effortless installation and worry free after sales support.
- **LED Status Indications:** At a glance visibility of charging status.

INTERNAL COMPONENTS

- **Smart Linux System:** Supports a wide array of features (Pro/Pro Plus models).
- **Integrated Leakage Detection:** AC 30mA/DC 6mA, eliminating the need for costly Type B leakage protection switches.
- **Built-in PEN Design:** Saves on the expense of additional grounding rod installations.
- **Electronic Lock Mechanisms:** Ensures the charging cable cannot be removed during use, enhancing safety.
- **Multiple Version Options:** Catering to various project budgets with Smart, Pro, and Pro Plus versions.
- **Wi-Fi 6 Module:** Supports 2.4GHz & 5GHz communication for safer, faster, and more stable data transmission.
- **4G Connectivity:** Offers diverse networking solutions to clients.

SCENARIOS

- **Residential Use:** Connects with energy management systems to utilise surplus solar power for charging
- **Public Use:** Power sharing across multiple units.
- **Commercial Use:** Interfaces with POS machines and MID meters to meet commercial requirements.



Untethered



Tethered



Floor mounted with pos

Item		Eco 7kW	Eco 11kW	Eco 22kW
Model NO.		iMHN-07K0B iMHN-07K0C	iMHN-11K0B iMHN-11K0C	iMHN-22K0B iMHN-22K0C
Maximum Power		7kW/32A@230VA	11kW/16A@400VA	22kW/32A@400VA
Basic Info	Tethered/Untethered	Optional		
	Plug & Cord	Type 2 with 5/7.5 Meters Cable		
	Dimension (H*W*D, mm)	310*260*115		
	Material	Polycarbonate		
	Colour	Grey/Black		
	Indicator & Display	LED Light		
Features	Measurement Method	On-Board Metering, External MID (Optional)		
	Communication Interface (Remote)	WiFi 6 (2.4/5GHz) and Bluetooth, 4G (Optional)		
	Communication Protocol (Remote)	Modbus RTU (Via RS-485), Modbus TCP (Via WiFi)		
	Charging Method	App, RFID, Contactless		
	OCPP	OCPP 1.6J, OCPP 2.0.1 Road map end of 2025		
	Dynamic Load Balancing	Yes, optional APCC-1R/3R		
	PV Surplus Charging	Yes, compatible with external smart meter		
Safety	Ingress Protection	IP65, IK10		
	Residual Current Protection	Type A 30mA+DC 6mA		
	Surge Protection	Yes		
	Ground Fault Protection	Yes		
	Overvoltage Protection	Yes		
	Overcurrent Protection	Yes		
	Overheat Protection	Yes		
	Output Short Circuit Protection	Yes		
	PEN	Yes		
	Tamper-Protection Boundary	Yes		
	Certification	EU: CE (LVD, RED, EMC), RoHS, NB, ETSI EN 303 645 UK: UKCA (LVD, RED, EMC), RoHS, AB, ETSI EN 303 645, Smart Charge Regulation		
	Certification Standard	EN IEC 61851-1, EN IEC 61851-21-2		
Environment	Installation	Wall/Pole Mounted		
	Storge Temperature	-40~75℃		
	Work Temperature	-30~50℃		
	Work Humidity	≤95%RH, No Water Droplet Condensation		
	Work Altitude	≤2000m		