

## **Specification of Enviro EV Eco**

# Enviro EV Eco



### 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

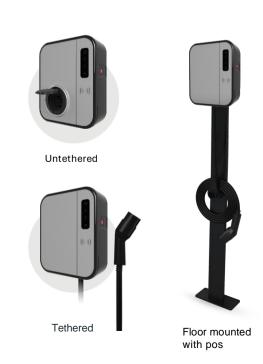
- Smart Linux System: Supports a wide array of features (Pro/Pro Plus models).
- Integrated Leakage Detection: AC 30mA/DC 6mA, eliminating the need for costly Type B leakage protection switches.
- Built-in PEN Design: Saves on the expense of additional grounding rod installations.
- Electronic Lock Mechanisms: 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-Fi6 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.

#### **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.



Item		Eco 7kW	Eco 11kW	Eco 22kW
Item		ECO / KVV	ECOTTRV	ECO 22RVV
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  Communication Interface (Remote)	On-Board Metering, External MID (Optional) 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°C		
	Work Temperature	-30~50°C		
	Work Humidity	≤95%RH, No Water Droplet Condensation		
	Work Altitude	≤2000m		