EV Home charging solution

Highlights

Our new EV Home charger is an intelligent, future-proof charging solution that fits any location thanks to its attractive design and compact dimensions.

The innovative design matches with all styles of houses and can be installed both indoors and outdoors. Its rugged, weather-proof materials guarantee years of uninterrupted use in a domestic setting, serving multiple users and vehicles.

Unique features

TotalEnergies and our partner *eNovates* have fully reinvented the charger concept in order to offer an innovative charger setup which is engineered for hassle free installation & configuration in various conditions.

We have decided for an all-inclusive solution based on a 3-phase charge point with a fixed 7m charging cable, bringing even the biggest cars within easy reach. Standard configuration is 16A which is the standard for EVs as introduced all over Europe and by local grid operators.

The charge point has local Bluetooth support for user configuration, ease of maintenance and direct control. Additional features include ethernet, Wi-Fi, and mobile data connection are available.

Dynamic load balancing is a standard feature for smart charging and peak shaving. On top, the charger is prepared for the future by supporting technologies like ISO-15118, OCPP 2.0 and bi-directional charging (V2G).

The on–board metering circuit is MID certified to comply with regulations related to any kind of billing.

Finally, the charger can interact with various Home Energy Management Systems using a standard interface protocols like EEBus.

Flexible installation options

The flexible charger design makes the charger to be fitted on any location, being wall mounted or standalone using a dedicated pedestal. Furthermore, the charger has a built-in leak detection device allowing for use of a cost-effective Type A differential. Finally, the charger is universal since it complies with all local regulatory or installation requirements (ie AREI/RGIE).

SPECIFICATIONS

	Professional
Charging Mode	Mode 3 (IEC 61851-1 ed. 3) ISO 15118 [1]
Charge Control	RFID (IEC 14443 A/B, ISO 15693) Plug & Charge (ISO-15118-2) [1]
Connectivity	Bluetooth Wifi (AP & Client) Ethernet (WAN + LAN, router) 2G / 4G / LTE
Multi-charge (Parking Lot)	Master / Slave
Backend Protocol	OCPP 1.6J OCPP 2.0 [2]
Metering	MID Meter
Load Balancing	Supported via optional hardware
HMI	LED based HMI
Options	Broken PEN Detection[3] BiDirectional Charging (V2G AC)[3] HEMS Integration (EEBus) [3]

Electrical Properties	
Voltage Rating	1x230V (50/60Hz) 3x400V+N (50/60Hz)
Current Rating	32A – 16A recommended by Synergid (grid operators)
Max Charging Power	7.4kW (single phase) 22kW (triphase)
Charging socket	AC–Type2 socket
Cable plug (standard)	Cable (7m) with AC-Type2 plug
Installation wiring	0.75 .. 10mm²
Earth Leakage Detection	DC 6mA (differential Type A)
Compliancy	IEC61851-1 ed3 EMC class B, CE EV/ZE ready predisposed

Physical properties	
Dimensions (mm) (W x H x D)	248 x 426 x 120
Weight (kg)	5.0 kg
Enclosure rating	IK10 (IEC 62262) IP54 (IEC 60529)
Operating Temperature	-30 °C .. +50 °C
Humidity	Max 95% (non condensing)
Mounting	Wall mount (included) optional pedestal
Warranty	2 years

(1): ISO-15118-2 support is planned for release in 2023
(2): OCPP 2.0 support is planned for release in 2023
(3): Hardware ready, services & support planned for release in 2023

Technical specifications are subject to change without prior notice.