SMART STATION WALLBOX 7.4-22kW

Highlights

The new KarChargers charger is an intelligent, affordable and scalable charging solution that fits any location thanks to its attractive design. The innovative modular design exists in different models, tailored to the specific needs of the market segments. The charger has a flexible enclosure approach, which can easily be rebranded or fully customized to match the customer's identity.

Unique features

KarChargers has fully reinvented the charger concept in order to offer a innovative charger setup which is engineered for hassle free installation & configuration in various installations.

The different models expose a set of features that match the purpose at the best price in the market. Where needed, the charger can be completed with additional options, based on the local needs & regulatory requirements. This way, the charger can be integrated in various eco-systems

All models have local Bluetooth support for configuration, maintenance and control. Depending on model, additional features include ethernet, Wi-Fi, and mobile data connection are available.

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. It is available in both socket or cable variants

Finally, the charger is universal since it can comply to all local regulatory or installation requirements.

STANDARD SPECIFICATIONS

KAR CHARGERS

	Essential	**Fleet**	**Pro**
Charging Mode	Mode 3 (IEC 61851-1 ed. 3)	Mode 3 (IEC 61851-1 ed. 3) ISO-15118 [1]	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]	RFID (IEC 14443 A/B, ISO 15693) Plug & Charge (ISO-15118-2) [1]
Connectivity	Bluetooth	Bluetooth Wifi (AP & Client) Ethernet (2x LAN, bridged)	Bluetooth Wifi (AP & Client) Ethernet (WAN + LAN, router) 2G / 4G / LTE
Multi-charge (Parking Lot)	-	Slave	Master / Slave
Backend Protocol	-	OCPP 1.6J OCPP 2.0 [2]	OCPP 1.6J OCPP 2.0 [2]
Metering	MID grade meter	MID meter	MID Meter
Load Balancing	Supported via optional hardware	Supported via optional hardware	Supported via optional hardware
HMI	LED based HMI	LED based HMI	LED based HMI
Options	Broken PEN Detection[3]	Broken PEN Detection[3] BiDirectional Charging (V2G AC)[3] HEMS Integration (EEBus) [3]	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
Max Charging Power	7.4kW (single phase) 22kW (triphase)
Charging socket	AC–Type2 socket Optional: Schuko, Schutter
Cable plug	Cable (7m) with AC-Type2 plug
Installation wiring	0.75 .. 10mm²
Earth Leakage Detection	DC 6mA
Compliancy	IEC61851-1 ed3 EMC class B, CE EV/ZE ready predisposed

Physical properties

Dimensions (W x H x D)	248 x 426 x 120 (without shutter) 248 x 426 x 165 (with shutter)
Weight (kg)	3.5— 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

More information please contact us.

(1): ISO-15118-2 support is planned for release in Q2 2023
(2): OCPP 2.0 support is planned for release in Q3 2023
(3): These options are planned for release by end of 2023

Technical specifications are subject to change without prior notice