EV Stick EVS-2-22

The EVS-2-22 is a smart 11 / 22 kW twin charging station (wallbox) for electric vehicles.
It is part of the Smart Energy Home system and is prepared for bi-directional charging

Key features

Flexible power split
Dynamic power split between the two charging points
Dynamic distribution of total available power to multiple charging stations

Wireless communication
Robust and low-damping wireless LoRa communication with SGW-1 gateway
Remote control with mobile app

Photovoltaic surplus charging
Automatic 1-phase / 3-phase switch and smart battery usage enables surplus charging from 1 W surplus

Smart scheduling
Fully-charged when leaving
Compatible with car preheat

Easy installation
No data cables
Plug & Play over-the-air commissioning
Mains cable from top or bottom

Configuration

The EVS-2-22 is available with one or two charging cables with configurable length. The total power can be configured to 11 or 22 kW.
The EV Stick is designed for smart usage within the Smart Energy Home. It is intended for making maximum use of PV energy but also makes sure the cars are fully charged when needed.
Each charging point can be configured dynamically via mobile app.
For commissioning and control via mobile app, the EVS-2-22 requires a SGW-1 smart gateway, for surplus charging, a smart power meter SPM-63 is required.

Technical Data

Connections

Power supply	3-phase 32 A, 3 x 1.5 mm²
Mains AC connection	5 x 6-10 mm² cable clamp (toolfree), standard installation cable
Max. current	32 A or 16 A per phase (configurable)
Nominal voltage	230 V @ 50 Hz / 240 V @ 60 Hz
Nominal frequency	50-60 Hz
Overcurrent protection	Requires max. 32 A
Internal DC residual current detection (RDC-MD >6 mA)	RCD switch type B included (only additional RCD switch type A required in electrical cabinet)
Mounting	Wall-mounting indoor or outdoor
Mains cable connection	From top or bottom

System

Number of charging points	2 (if required, only 1 can be used)
Charging cable	Configurable with 1 or 2 cables with 5 m or 7.5 m length
Charging Plug	Type 2
Standby consumption	< 1 W

Charge modes

Charge mode	Mode 3 in accordance with IEC 61851-1 AC charging
Power split	The available charging power can be distributed flexibly between the two charging points
PV surplus charging	Automatically switches to 1-phase charging for available surplus power < 4.14 kW to allow surplus charging down to 1.38 kW In combination with Solarnative AC-battery: smart surplus charging from 1 W surplus power
Smart scheduling	Combination of surplus charging with smart scheduling to have solar-optimized charging and a full car when needed
Fleet management	Total available connection power can be distributed over multiple EVS-2-22
Bi-directional charging	The EVS-2-22 is prepared for bi-directional charging according to ISO-15118(-20)

Communication

Communication with SGW 1 gateway	LoRa WAN wireless
Commissioning	Via mobile app

General Data

Dimensions (length x width x height)	80 mm x 80 mm x 300 mm (3.2 in x 3.2 in x 11.8 in)
Weight	2 kg (4.4 lbs) (without cables)
Ingress protection	IP65

Compliance (pending)

Certification (pending)	IEC 61851-1, ISO-15118(-20)