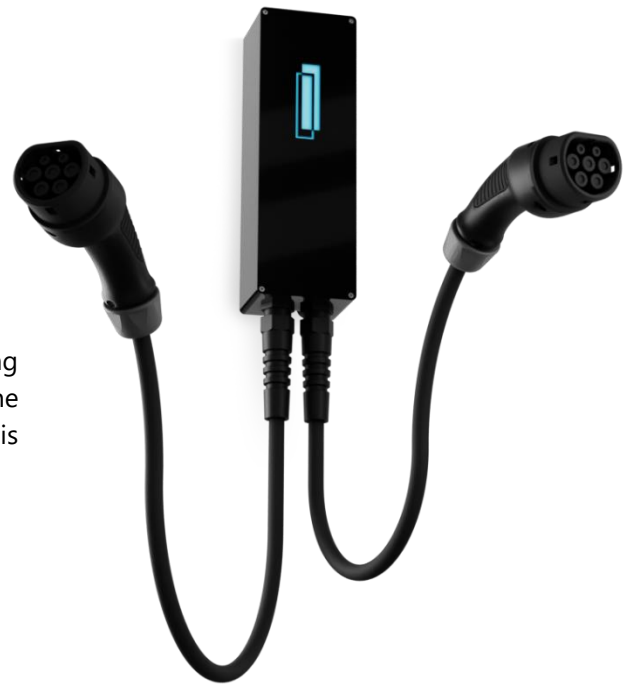


EV Stick

EVS-2-22

Electric Vehicle Charging Station

The EVS-2-22 is a smart 11/22 kW twin charging station (wallbox) for electric vehicles. It is part of the Solarnative Smart Energy Home system and is prepared for bidirectional 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 Smart Gateway SGW-1
Remote control via 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. Each charging point can be configured dynamically via mobile app.

The EV Stick is designed for smart usage within the Solarnative Smart Energy Home. It is intended for making maximum use of PV energy, but also makes sure the cars are fully charged when needed.

For commissioning and control of the EVS-2-22 via mobile app, the PV system requires a Smart Gateway SGW-1. For surplus charging, a Smart Power Meter SPM-63 is required.

Technical Data

Connections	EV Stick EVS-2-22
Power supply	3-phase 32 A
Mains AC connection	5 x 6-10 mm ² cable clamp (tool-free), 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	EV Stick EVS-2-22
Number of charging points	2 (if required, 1 can be used solely)
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	EV Stick EVS-2-22
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 fully charged car when needed
Fleet management	Total available connection power can be distributed over multiple EVS-2-22
Bidirectional charging	The EVS-2-22 is prepared for bidirectional charging according to ISO-15118(-20)

Communication	
Communication with SGW 1 gateway	EV Stick EVS-2-22 LoRa WAN wireless
Commissioning	Via mobile app

General Data	
Dimensions (length x width x height)	EV Stick EVS-2-22 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	
Certifications (pending)	EV Stick EVS-2-22 IEC 61851-1, ISO-15118(-20)