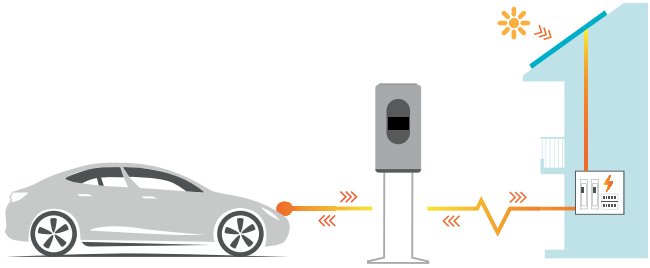
sospeso&charge bi-directional

Higher efficiency in energy consumption

Through sospeso&charge bi-directional an EV can be used as a stationary battery. For example, in combination with a photovoltaic system it is possible to use self-produced solar power in the evening hours, as well. Also, this power reserve can be used to cut local peak demands, which helps to lower stress on the grid connection and rates on the energy supply tariffs.



Fast and easy installation

sospeso&charge bi-directional is installed easily and cost-effectively. There‘s no need for excessive electrical infrastructure. A common 16A, 400V AC connection is sufficient to operate the base model. The fast charger can be set up on an open-source opi2020 foundation or on a wall mounting plate.

Easy entry into load management

sospeso&charge offers an ideal solution for the integration of batteries into the local renewable power supply. Through the 10kW charger the electric vehicle can easily be connected to a house or small business via a CEE plug. Simple as that, without the need for any additional and expensive electric installations. Through the then usable battery capacity, local demand peaks can be cut and the level of self-sufficiency raised.

CCS
connector

CHAdeMO
connector

Easy bi-directional charging

sospeso&charge bi-directional is the newest development within the proven and valued &charge 10kW DC fastcharger family of EVTEC. Thanks to its bi-directional functionality a CCS and CHAdeMO-compliant EV is easily integrated as storage in the local renewable power supply. sospeso&charge bi-directional complies with the highest safety & quality standards and is developed and produced by EVTEC in Switzerland.

Intelligent integration

The charging station supports the open-source communication standard OCPP to allow i.e. access, billing and system status monitoring in real time. sospeso&charge bi-directional is easily integrated in local load management systems (as i.e. „barista“) and can consume or deliver power in accordance to current local needs.

sospeso&charge
bi-directional

- easy integration of mobile storage units
- peak demand cut through energy buffering
- higher consumption of self produced energy
- connection via an OCPP-compatible backend
- communication via barista

Technical Specifications

Input AC	Grid connection	AC 3 - phase + N + PE
	Input voltage range	$400V_{AC}$ +/- 10%
	Nominal input current	$3 \times 16A_{AC}$
	Input frequency	50Hz
DC Output	DC Plug	Plug 1: CSS IEC 62196-3 — Plug 2: CHAdeMO JEVS G105
	Maximum DC Output power	10kW
	DC Output voltage range	170 - $500V_{DC}$
	Maximum DC Output current	$28A_{DC}$
	Power factor (> 50% load)	> 0.99
	Efficiency	98% at full load
	Safety	- Short circuit protected - Low-voltage protection - Overcurr. circuit breaker - Isolation monitoring - Overvoltage protection - Earth monitoring
General	Operating temperature	-20°C to +45°C
	Storage temperature	-40°C to +85°C
	Relative humidity	5% to 95% (without condensation)
	Protection	IP 54 (indoor / outdoor use)
	Dimensions (H x W x D)	820 x 550 x 280mm
	Mass	38kg
Standards	Electrical safety (xFC1)	IEC 61851-1, IEC 62479
	EMV	EN 61000-6-1, -2, -3, 4, EN 61000-3-2
	CHAdeMO	Rev. 0.9.1 (certified), Rev. 1.2 (compatible)
	CCS	DIN70121, ISO15118

EVTEC AG
Phone: +41 41 260 88 38
E-Mail: evtec@evtec.ch
Web: www.evtec.ch

the **&charge**family: www.andcharge.com

espresso&charge
Up to 150kW DC + 65kW AC charging for all vehicles. Charges up to four cars at the same time.

cappuccino&charge
Two times 25kW DC, including dynamic load management and a color display, allow easy and fast charging of all EV's.

coffee&charge
Quick and easy charging with up to 20kW DC + 22kW AC. Billing and bi-directional charging possible.

move&charge
Plug&play 20kW DC + optional 22kW AC charging. For fleet operators, repair shops and spontaneous use.

sospeso&charge
With the 10kW DC charger, your EV can easily be connected to your house or business.