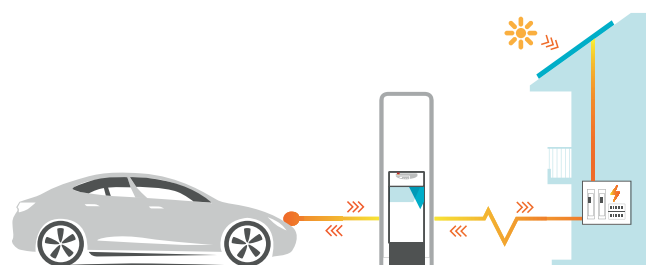




coffee&charge bi-directional

Higher efficiency in energy consumption

Through coffee&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

coffee&charge bi-directional is installed easily and cost-effectively. There's no need for excessive electrical infrastructure. A common 16A / 32A, 400 V 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 surface mounting plate.

local storage use
peak demand cut
higher self sufficiency
controllable via OCPP



Easy entry into load management

coffee&charge bi-directional offers an ideal solution for the integration of batteries into the local renewable power supply. Through the 10 kW charger (upgradeable to 20 kW) 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.

CHAdeMO
connector





Easy bi-directional charging

coffee&charge bi-directional is the newest development within the proven and valued &charge 20 kW DC fastcharger family of EVTEC. Thanks to its bi-directional functionality a CHAdeMO-compliant EV is easily integrated as storage in the local renewable power supply. coffee&charge bi-directional complies with the highest safety & quality standards and is developed and produced by EVTEC in Switzerland.




- 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

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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. coffee&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.

Technical Specifications			
Input AC	Grid connection	AC 3 - phase + N + PE	
	Input voltage range	400 V _{AC} +/- 10%	
	Nominal input current	3 x 32 A _{AC}	
	Input frequency	50 Hz	
DC Output	DC Plug	CHAdeMO  JEVs G105, 4m Kabel	
	Maximum DC Output power	10 - 20 kW	
	DC Output voltage range	170 - 500 V _{DC} (under load: 50 - 500 V _{DC})	
	Maximum DC Output current	50 A _{DC}	
	Power factor (> 50% load)	> 0.99	
	Efficiency	93% 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 (D x W x H)		350 x 590 x 1120 mm	
Standards	Mass	50 kg	
	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)	




the &chargefamily: www.andcharge.com




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




 **cappuccino&charge**
 Two times 25 kW 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 20 kW DC + 22 kW AC. Billing and bi-directional charging possible.



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



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