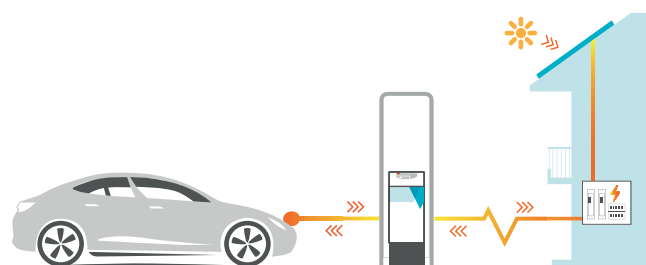




coffee&charge bi-directional

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, 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 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 10kW charger (upgradeable to 20kW) 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 20kW 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.

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.



- 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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Technical Specifications			
Input AC	Grid connection	AC 3 - phase + N + PE	
	Input voltage range	400V _{AC} +/- 10%	
	Nominal input current	3 x 32A _{AC}	
	Input frequency	50Hz	
DC Output	DC Plug	CHAdeMO	
		 JEVS G105, 4m Kabel	
	Maximum DC Output power	10 - 20kW	
	DC Output voltage range	170 - 500V _{DC} (under load: 50 - 500 V _{DC})	
	Maximum DC Output current	50A _{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	
Mass		50kg	
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)	

the &chargefamily: www.andcharge.com




 **espresso&charge**
Up to 165kW DC + 65kW AC charging for all vehicles. Charges up to four cars at the same time.



 **cappuccino&charge**
64kW 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.